Higher Education

Judge's 'trespass' ruling over LSE occupation, but fees protest goes on

great that becomes and semious

be given at other times.

This week's accuportions reached a climax on Wednesday, when stadents at the Landon School of Economics offered passive constfirs week's accupations reached at clause on Wednesday, when statements at the Landon School of committees offered passive reasting the administrative black after a distribute in the country line of them.

Due of the cight, Miss Rosemary line in division and the country line of them.

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Due of the cight, Miss Rosemary line of them.

But the Country line of them.

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In Hirmingham, hundreds of the line cight, Miss Rosemary line of the line cight, Miss Rosemary line of the line cight, Miss Rosemary line of the line

Crantling the arder, Mr Justice Mocaria sold: "There cannot be any fastification for committing what is an act of trespass for some renganization of a university up college?" The said Professor Dahientador had done his atomet to avoid a basel.

had done his utmost to evoid a local-on cidlision with the students. In on affidavit road out in court,

BEd degree 'obsolete' after Woolwich occupation three years

A confidential report to the Coun-ell for National Arademic Awards, which upprayes the degree in tea-

their training institutions, paints a bleak fature for the BEd.

Brubes about the luture of the council's givers bave been ruined because of the reorganization of tencher training. The report says:

"thus of the effects of the cut in the countil and the different paints." trining places, and the celeted problems of teacher, supply, is that courses more rapidly become our of date or well as logistically inviable.

tide by the countile staff are flowing par courses would be considered the difficulties staff are flowing par courses would be considered the difficulties staff are flowing par courses would be considered the difficulties at a staff are flowing par courses would be considered the difficulties at a staff are flowing par courses would be considered the difficulties at a staff are flowing par courses would be considered the difficulties at a staff are flowing par courses would be considered the difficulties at a staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing par courses would be considered the staff are flowing part to constant to constant to constant to constant to constant the staff are staff are flowing part to constant to constant to constant to constant to constant the staff are staff are

and sal ingredient of industrial experience in Britein or Europe would be on advantage".

"The committee envisage that the courses are likely to he in univerenties with a strong cod established base hat onfy in engineering but olso in studies directly related to its awn, and was also hat onfy in engineering but olso in studies directly related to its awn, and was also its time and in studies directly related to its awn, and was also its studies directly related to its awn, and was also its studies directly related to base his time and in studies directly related to base in studies directly related to its awn, and was also its studies directly related to base in studies directly related to base his studies."

If must make it clear that the essance of what is principled in the essance of what is principled in the essance should no only he of high quality, but should be competitive in the consettly interested in the interest of very high personal and intellectual qualities would qualify for or bonefit from them. The committee will increase would principle in cunsideriog principles."

I joint submissions from severel in cunsideriog principles would be considered in the interest was an ossurance that "continue in principle in the result of the interest of the int Has the BEd a future is parlians the starkest form, of posicia the question of posicial developments. This question must involve renewed discussion of the mories of a unfossional degree as opposed to a unorprafessional degree with postgraduete training, but it is becoming clearer that come of our present problems could be solved by a fullar commitment to four year courses. commitment to four-year courses your continuent to houryear courses.

"It may be not only the threeyour cortificate (af education) but
list the three-year BEd degrow that
is becaming absolute."—TES.

Dr Gordon Gondman, furnierly pro-fessor of hotmay at finiversity Col-lene, Signisca, 1s to hd the first director of the Belfor International

Coming weeks.

Nest Wednesday the Nathanal Union of Students is urpanishing a Say al actions which will involve became howevers and products and product would accupations. On March 4 a positional advantage and avoid a second accupations for increases and redundances. A student state redundances. A student state redundances.

the four students maned in the order were Mr John Crisse, the mann's senior treasurer, Mr Roger talloway, Mr Daud Khan, and Mr Milan Brahmur. When the hearing began, 50 more asked to be joined at detendants and the pulse agreed in hear eight of them.

The students pere protosting over a recent decision by die college's

haurd of governors to reject the contraversial latter Landon Educa-

thin Authority quart policy for aversess student but account the less traish Bepartment of Folucation and Science directive that in the coming

academic year rolliges should keep their foreign student numbers to

cale clusure of courses. A report

handful of undergraduete courses of very high quality with a pronounced orientation towards manufectering

Students throughout the country staped occupation this week to protest against Increased ruition fees Mayo disruption is expected in the Coming weeks.

Note Weeks.

Protessor Dahrendorf said 85 cm-ployees were being prevented from Warwick University, Brighton Polytechnic, Standards from the hardship fund, and Middleses Polytechnic, Toesside loans to students were all being Polytechnic, and Newman College, Itle and the manner of the protection of the protecti

At Warnick, students stuged o 24-hoor occupation last Priday, although the senere had possed u mother that the proposed level of fees was wholly morreptable and neconstraints On Moreh & a notional mean stall redundancies. A stall demonstration against fee increases and education emissions fee increases and education crits will be held in London.

Essex University Senate has agreed that heterory and senious.

The four students manded in the problem of the students' union, said there would be a further necessity agreed that heterory and senious or the students union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would be a further necessity and the students' union, said there would not the students' union, said the students' union, said

Thames Poly students end

ing lody shows that at least six overses would be in Jouernly if stage forther oction.

Captains of industry' queue

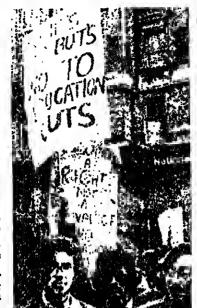
occupation after the pulytochnic agreed not to implement a queta

The indge sympathized with Miss Rae, and John M. George: "If we are to have a discussion about what Is meant by a liberal education we arrive probability and might a mission of the meant by a liberal education we arrive probability and might."

18. We have a contraction of the mission of th Only properties of thirds."

On Wordersday, students barriess self-financing students, and in superior students, and in third to superior students.

Into a properly unified scheme of study with its own director", Examples uf possible continuations might ha Manchester University, IIMIST, Munchester Business School oud Salford University, Asten and Birmingtom; Imperiol tollege and the London Business School.



the LSE demonstrating outside the Law Coorts in Lamina this injunction epplication.

Picket 'threat' sparks strike

Mure than 15,000 university technicians will hold a one-day strike to-day in protest against the olleged discontinuous of a peaceful picket line at Elemingham Pulvorsity.

The technicians' union, the Assortation of Schoolile Technical and Managerial Staffs, sold this week that the strike takes a page strike the strike takes and appreciation of Thames Polytechnic audents yester-day 'called' off their week long nverses studen 'oumbers' at the occupation of the vollege's Word with site vesterday after a general meeting of the students' union the fallege's diplants in accupational to Those at high risk are the callege's diplanta in accupational research, where 6d per cent of this year's make were from arrevees, and the Higher Nothad. Olploma programmes in company smalles and civil engineering, where 40 per

that the strike was an expression of solidarity with libraringham technicians who have been picketing fur 24 weeks in a dispute about holiday entitlement.

Mr Reguliral, a mailtant officer of the ACHMS said the malar parameter.

Other courses named as likely to be at risk are the BA in pullicul ermony, the college's postgranuote diploma in Industrial administration, and the Higher National Diploma in mails, statistics and computing. the ASTMS, said the union was out-raged by the university's use of oonunion brig drivers who had injured and threatened pickers. The union was collecting evidence in prepara-tion for legal action ogolast the uni-yersity. "We expect work in cer-tain parts of the universities to be The student arcupation brought all toaching work at the Wautwich site to a hab. The main bluddl-stration centre on the Campus was interrupted but the malo purpose (

this action is to chaw our indignation and rojugnoncy aver what has
happened in Birmingham."

Dr Robert Hunter, Bironingham's
vice-rintecther, has repiled to a telegram from Mr Clive Jonkins, geoeral secretory of the ASTMS, suying:
"Your allegations are entirely without foundation and ere totally
rejected. Any complaints chould be
ruported in the solice."

Dr Hunter said the univarsity upheld the right of poeceful picketing.
Numerous complaints of domoga being done to locoming vehicles by
pickets bed heen mede to the university and the pelice. Mr Muurice Sbuck, Weir fellow and tutor in politics et University Carlego, Oxford, hos been eppolated vice-chancellor of Leicester University. He will succept Sir Francisty. Mr Shock, egod 50, has been in Shock, egod 50, has been in Shock, egod 50, has been in Sir Collega since 1956. Uetil 1948 he was sanior treasurar oxione. Oxford Union Sociaty end in the Control University. He was a mornher of the University. He is the author of the Charal Troulition with Also, sullettend is writing a biography at Sir end is writing a biography at Sir end. Mr Muurlee Sbuck, Welr fellow

log this body beckese of vested Interests,"

Mr Gcreid Fowler, Mr for Wrekin
and foroser minister of otete overscoing higher education, argued fet
the esteblishment of a body repre-

the establishment of a body representing the governors of polytechnics but with links with the CDP, that could challenge lees thet misused or misinterpreted thair powers. This request for a CDP association was also echoed by other representatives of the seminer. It will now be the task of the four-men werking parry—the chairmen of North East London, North Lundon, Central London and Leeds polytechnics governing londies—to make the oqually tricky decision over whether polyterfule directors should be included in the nombership of the new body. Trafes Newsisavine

Trafes Newsisavine

Infalling 1997

Printed and painted by Trans Norskip

Inpoles at New Infalling Indian Select

India 1 relate Polymore 23, 1977, uculars

land, Irritary Polymore 33, 1977, uculars

as a newsisavine in the Itas (Place, 1962)

Class positive pute at New York, NY, 1962

Rich

Closure of law clinic opposed

There is strong appasition to be the a of an independent law tent to replace the present Kem to versity law claims, which has been proposed by Professor A. W. Sintpana, Donn of the Faculty of Saclal Sciences.

The contriversial decision to do the clinic was taken by the us versity senate last year after a mon

Professor Simpson says be scheme for on independent to course these not mean the rough-mice of the existing law clinic in new furn. There would be take changes in organization and finantial that this faces fierce opposition for the present clinic's supporters.

A runmontry law centre is Canterbury, under a manageness scheme which would ensure its own plete independence from the attention, has been proposed by his fessor Simpson. The centre won propole facilities for students at proposed in proposed in the centre wond propole facilities. roscorch in return for cosh. On established, the management co

dent.

Fur the first six months, he committee would have two unbustry representatives, two lates the from the Chibens' Adole Bureau, one from the Kent Sode Services Department, and one has the Kent Council for Volusian Service.

This would later be changed in include elected managed to include elected managed.

Professor Shipsan points out to the praposals bave not be approved by the university, and is indikely that any decision of linonce can be token before by Until sububle premises in Contention can be found, the remisely operate on the she of the existing law centre of the universe. Mr Larry Grant, the present rilate's splictur, said this week an conruged that none of the fee

Professor Simpson's propu-were put to the Secial Scient Foculty Buard this week

Maurice Shock is

NEXT WEEK

Profile of B. F. Skinner
Chinese education after the
of the "gang of four
Interview with David Marques
St. David's College, Lempe

celebrotes 150 years John Doncy : Technology liberel addication Educated King (Educating

16 to 19-year-olds Roviews of new English bot

Leicester v-c

The Coveriment does not plan any resi increme in spending on further sad bigher education until 1979, and even then the amount to be spent oo asch student could well be less then this year. Present numbers of ocedenic staff will be mointained for the next than when the property of the part than when the property of the property of the property of the property of the part than when the property of the property of the property of the part of the property of the part of the property of the part of th course in the university is contracted but in this way. The scheme

tased for the next twe years at least.

These ere the main points coulained in the Government's spending plans published last week. Its estimates beyond 1978 are soid to be "increasingly provisionel" in the light of recent cuts in public spending.

Mr Mun w sald thet 37 per can of places on those full-time courses were leken up by overseas

course were leven up by oversons sudents, which was not a conscious sad planned poliry fur eversons uld but a byproduct oil the British lating to generate the empty end demand of scientists end engineers for industry.

No increase

government

planned in

by David Walker

for industry.

"I second that it is desirable that Tu p
we should oncourage oversees stu- way of

Current spending on further and higher education for the accdemic year beginning in October fe glyou as £1,85/m at 'inst cutumm's prices a reduction in real terms of 1 parceal en expenditure this financial tear. This figure is based on \$16,000 students in con-advanced further education end 519,000 in higher education compared with 798,000 and 515,000 respectively for the current year.

A MERCHAN

Higher Education March 4, 1977. No. 280 SUPPLEMENT Price 18p

THE TIMES

Polys under fire on overseas

nre canditioned by the ettitude of the Cauncil for Notional Academic Awards which touds to equete stan-

durds with outrance requirements.

But I lings we can co-operate to
help solve this problem."

Tu put unnecessory hurdles in the
way of outrare poople hoping to juli

and part-time students

President Corter had order! Dr Frank Press, o noted setsonologist and former delegate to the Geneva nuclear tost bar conference, to bath is science odvisar and director of the White House Office of Science and Technology Pniley.

Dr Press, whose appointment is expected to be omnounced shortly,

that has spousored the exchanges of several handred Chinese and American sciencists.

The Office of Science and Technology Policy is a recontly catubilished secessor to the defunct Office of Science and Technology, abolished in 1973 by President Nixon, Dr Press will have a considerable sey in the epacintment of new heads of Federel organizations, such us the National Aeronautics and Space Administration.

At a time when the Amurican Government has made human rights in the Sayler Union and other countries a major issue, the National Academy of Sciences is doing same quiet lobbying of its own for scientic freedom in the USSR.

As part of a compaign humched lest summer to encourage freedom of anyreasion, publication and travol actions as the continuous of scientes. Last week it coofirmed that it "remoins in correspondence" with the condemy on the question of individual scienties whe have suffered restrictions in their work but it would not reveal whether riere has yet been any response.

Until lest year the ecadamy was

relucteut to speak out as o body oo conditions for scientists in other countries, preferring face-to-foce rap bers mandated in to adopt a more

White House science post filled

by Sae Reld

The polyacrlinks were criticized for having up many oversees sundents on technology enerses and any dems on the first and any dems of the partition in make to the Third work and proven that the present level of overseas students in the bigh proposal students of the trace of the TUC, compilained obout the bigh proposal of the trace of the TUC, compilained obout the bigh proposal of the trace showing this could be done. There was also a need for more sandwich courses but this depended on e more positive response from employers.

Cloiming that the collective florancing of polytechnics through the ponling system was loading to ecrious anomalies, Mr Murray soid: "In some situations under utilized teaching resources in nolytechnics are not being epplied to less edvanced work, where there is nore positive response from employers.
Cloiming that the collective fluoreing of polytechnics through the ponling system was loading to ecrious anomalies. Mr Murruy soid: "In some situations underntilized teaching resources in polytechnics are not heing applied to less advanced work, where there is a shertage of teachers, because it would meen that the solories would have to be borne, outlroly by the local octharity instand of through the pool. that has spousored the exchanges of several handred Chinese and

response. Until lest year the ecadamy was activist opproach it drew up a declarstion of eclentilic freedom to be
distributed in every country, eigned
end returned to Wechington. Until
lest week some 12,000 copies of this
hed been sent back from ulne countries, mainly Britain and Canada.
None hed been received from the
Seviet block.
On Sunday the seedenty's committee will approve a full humon rights
programme to be presented at the
snough meeting in April.

Michael Binyon talks to American intellectuals, 7

China after Mao

Content

China since the death of Mao Tse Tung, 8

Radical science

Eileen Barker reviews two volumes of essays on ideology in science, edited by Hilary and Steven

Plato and technology

John Dancy discusses the pervasive influence of Plato's distaste for technology, 17

Banned in Germany

In Don's diary Claudia von Braunmühl describes how she fell foul of the Berufsverbot in Frankfuri

In-service action

Jim Porter calls for a. national initiative to preserve and extend in-service education for teachers, 5

English books

New books on Pope, Shaw, Joyce and Hardy are among those reviewed in five special pages on English, 20-24

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olicebor	ird	10 mg 1 mg 1 mg
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oversees	news	110 10 10 10 10
lasifie		1.8

On Similary the geodenia's come the current year. In this globel form, the Public Expenditure Survey flaures glya little guids es to hav once the sanoual meeting in April. Shortage of engineers myth exploded information being the sanoual meeting in April. Shortage of engineers myth exploded information being short critical critical information being short critical cr

GET A GRIP OF

YOURSELF MAN!

say, universitice, would received and traffer education 2586m compared with 1572m, compared w

Academic dévelopm	ients
Noticeboard	1 1 1 1 A
Lotters	11
North Ametican ne	WS
Overseas news	
Books	****

Stockholm post

then abvious and strong reasons for believing that a downward trend would cominne for some years at

leges and departments of education

was still increasing in 1971 with the

result that there was now tencher anemployment and the closuro of colleges.

y some of the foroter colleges of

"I am bound to edult that the EITB had problems in recruiting even 50 students and only managed it after a big adversising effort. But despite the difficulties the board is plenning an enlarged acheme in 1977", she sold. It would be a liappy development if the other industry troining boards followed solt with colleges, through their local contacts, playing e part.

Mrs Williams sald she would like a year out af education between leaving school and galug on to col-lege or university:

warns Sir Derman encourage girls

Ilritain is poised to produce a glut of engineers who will face unemployment in a few years, Sir Derman Christomate full rime and sandwich of engineers who will face unemployment in a few years, Sir Derman Christomate in the fall in the birthrate. But the hirthrate ware

The planning figure of 560,000 students on full time and sandwich higher education courses in Britain by 1981 will allow for about 10,000 extra entry places for girls, Mrs Williams, secretary of stota for education and science, sald.

She maintained that for those female students with twa A levels there would be a wide choice of degree level courses available, including diversified courses offered by some of the foreer colleges of the foreign courses had by some of the foreign colleges of doubt, echoed in polytechnics out of the Association after the foreign courses had that the number applying for university engineering courses had the foreign courses had the foreign courses of the foreign courses of the foreign courses of the foreign courses of the foreign courses and doubt, echoed in polytechnics out of the Association and the foreign courses had the foreign course and foreign courses had the foreign course and foreign course who will fore undercourse of the course of courses of courses of courses are course of the foreign course where the course of the pherson, vice-chancellor of Durham in the birthrate. But the hirthrate University, has warned.

by some of the foroier colleges of education.

But aome of the 10,000 who previously might hove cotered teacher trailling would be less well qualified. Thera is no advanced nonvocational course opan to them leading to a national award. But vocational caurses in further eduration sre avoilable, suitable and helpful.

"We oust encourage able girls to take A lovels and go an ta further and higher education. We must encourage them to acck further education end trailing as a step to skilled jobs. Wo must make accent end mathematics more attractive to both girls and loays."

The Engineering Industry Training Boert had set up a nilot scheme offering 50 scholurships to girls in mechanical and electronic engineering, which was based in Birmingham and London.

A report making recommendations for the trailing of lecturers in Britain's 500 further education and London.

A report making recommendations for the trailing of lecturers in Britain's 500 further education and London.

A anthonyment and the closure of colleges.

Commenting on the current short-age of qualified production engineers will that very little responsibility lay within the education and the education would grather through the responsibility lay within the education and the penners time, when most of the generation would grather through the responsibility lay within the education and first three vents there exist more and higher education would grather three and higher education would grather three vents there exist more and there end the responsibility lay within the education and first three vents there exist more and the penner would be employed.

"There will be substantiol unemplayment and the oliginate of the generation would grather three will be substantiol unemplayment and the colleges.

Commenting colleges.

Commenting of colleges.

Commenting of colleges.

Commenting of colleges.

Commenting of colleges and excellent end exist more and readuction manugers, Sir dustry hit three vents of interestment the object. In fact, to said, if the present pou doubt, echoed in polytechnics oud

at the necting.

The report, prepared by the Advisory Committee for the Supply and Troining of Teachara, maintoins that all new entrants to further education teoching from 1981 on-words should be tequired to its ve comploted training and that un-trained lecturers should sitend in-service troining programmes.

A report making recommendations for the training of lecturers in Britain's 500 further education colleges and 30 polytechnics has been in the hands of the Department of Education and Science for nearly two years but has still not be the needing.

A subcommittee chaired by Professor Normon Haycocks, ucademic secretary of the Universities Council for the Education of Tenchers, threw up the proposals, which were submitted to the DES in June, 1975. In was fracessor Haycocks who reported the department's lack of resulting to the department's lack of resulting to the contraction of the department's lack of resulting to the department's lack of resulting to the contract of the department's lack of resulting to the contract of the department's lack of the contract of the department of the department of the contract of the cont

response to the meeting.

The proposols, he said, were intended to mark an interior stage in the development of teacher training. In 1973 only one third of the 66,500 lecturers employed in polytechnics and colleges had undertaken full-time teacher training caurses leuding in a cerificote of education.

week.
Opening the section an teacher regional conference at Bradford College, Mr Frank Harris, fectorer in the department of education at the University of York, said: "The stuffs of colleges that have diversified have here required to mast many new demands and a great strain has been placed on them, The craution of the modular course has raised a number of problems and many of my collegues are now questioning whether this marement has gone ton for.

"The staff reductions are more drastic than I realized"

Confusion over

Pragmented college of education

courses are creating confusion among teacher training students, said a leading speaker at the second "great debate" confutence last

hits trainees

so much choice

Reproduced by pomission of Manchester University's Compusicant

On far,
"Students have so much chalce in some cases that they are over-whelmed and confused. Others find it difficult to find a coherence in thoir course partern with so much frogmentation. Now, as some calleges are cut back in their trarber troining numbers, they face the problem of how viable are some of the modular murses they have put homested on the windows.

problem of how while are same of the modular rourses they have put on offer."

Mr Horris lacked demands for all teachers to follow four year degree courses. In the three-year courses, ha sull, something rests bound to suffer oud, in most cases, this was the professional training component.

He added: "Of course we must get the standard of entry right and I don't believe that we should accept peuple into teacher training of nations. It is routed in handled accept peuple into teacher training of nations. It is routed in handled accept peuple into teacher training of nations. It is routed in handled accept peuple into teacher training to teach in primary atheals we need to insist on pre-centry require-

the regional conforences were over.

We need the equivalent of un Education NEDO at antional level to cerry on the process."

In the subsequent dehate, speakers frequently rambled away from the subject of teacher training. Mr John Gunnell, of Leeds University School of Education, however, made a passionete opineal fur en oud to the dispensation that allows science end maths graduates to teach without professional training qualifications.

Mr D. O. Davis, president failed that the cantain of one of the cantain of one of the platfurm speaking write a report.

One of the platfurm speaking write a report.

One of the platfurm speaking the reports below the confidence of the platfurm speaking and the confidence of the platfurm speaking the reports below to write reports infimediately should be ehle to learn quickly.

Three more colleges have voted to leeve the NUS I Imperial College, Loudon and St Catherine's and Si Edimund's House, Cembridge, At Tribity College, Cambridge, however, a dissatilietion move was defected.

The Clement Froud, MP, was reclected rector of Dundee University Is to award by elected rector of Dundee University Is to award by the pollege University Is to award with the p

Stirling honour

by Clive Cookson

stience correspondent

The EEC is on the right course with its present "slow but steady" or clear growth programme, according to a detailed unalysis of Europe's finure cnergy requirements by Strathelyle University's Euergy Studies Onto.

The Community's plans for fast ourlear growth—adopted in 1974 after the oil crisis and progressively reduced in scope since then sirely reduced in scope since then the oil crisis and progressically strain on the European economy and created a disastrons bound and created a disastrons bound and bust cycle in the nucleor industry.

The Strathelyde study was bosed to the strain of the nucleor in the strain of the nucleor industry of the large exists to satisfy these outputs. The Strathelyde study was bosed to the nucleor in the strain of the nucleor in the strain of the nucleor industrial to imported unalimation of nutlear waste is highlighted. Between 1973 and 1985. The investment one working.

The prohibit of the current Community algebra "in increase the object with more of 12 per cent, not the growth tate of 12 per cent, not the growth tate of 12 per cent, not the functions of nuclear mover from the equivalent of nuclear mover from the equivalent of nuclear mover from the equivalent of nuclear mover from the nucleof in 1974 to import dependence by a switch from increase the output of nuclear power "is onsoled the intenset, and the first fast breeder reactors or working.

The Community's plans for fast intensely be a transfer of dependence from import of nuclear mover from the equivalent of nuclear mover from the control of nuclear mover from the output of nuclear mover from the nuclear power from the pure transfer of dependence from import of nuclear mover from the output of nuclear mover from the nuclear of nuclear mover from the nuclear of nuclear mover from the pure can find the import of nuclear mover from the nuclear of nuclear mover from the pure can find the first fast breeder reactors or working.

The prohiben of nuclear power stations will depend on

lation recliniques.

The work was funded by the EEC and carried out with the full compensation of the energy directorate in Brussels. The report shows that while Europe's energy policy is roughly on course, it contains several weaknesses and incun-

Scots' doubts

UGC power

Some ocaderales had a naive and touching faith in the University Grants Committee as a guarantor

Grants Committee as o guarantor of freedon and money, occording to a contributor to e new series of Sconish educational papers. Dr Nigel Grant, an Edinburgh academic well known as a pro-devolutionial, asid tha recent increase in fees bad shown the impotence of the UGC in the face of a datermined Wastminster government.

Dr Gront's remarks appeared in the third of o scries of educational monographs published by the department of education at Stirling University, devnted to the Sconish universities and devolution. Taking

about

by Devid Walker

EEC's nuclear policy 'is correct'

dustry.

The Strathelyde study was bosed on a new technique, "dynomic energy systems analysis", soid the director of the energy unit, Dr Malcolm Slessor. It is a novel synthesis of two established methods, energy analysis nod computer simulation techniques.

The work was founded. estuaries and the coast, then the electricity will have to be brought inland to centres of population and industry, with inevitable loss and

cytra expense.

The Strathelyde report shows that the EEC is working with otisleading energy statistics, which do not take praper account of the enormous energy consumption of the power station. construction pragrompio

decisions to be made", said Or

Slesser.
"What the method does provide "What the method does provide is quantitative results in physical units of energy which are largely independent of financial effects once the strotegy is adopted."

The noit's next apport task will be to apply Dynamic Energy Systems Analysis to the United Kingdom, looking much further into the future.

Dunpair Energy Analysis of the

Dunmic Energy Analysis of the EEC Energy Transition Programme ear be obtained from Straticlyde University, price £5.

London institute 'discriminates'

Widespread sex discrimination in the appointment, promotion and payment of staff at all levels in the University of London Institute of Education is alleged in an internal report by the Institute's sex discrimination working party.

The Department of Education and Science is a thinking department, preparing policies over a much longer span of timo than in other parts of government, according to Mrs Williams, Secretary for Education as setting a climate within the ducation as setting a climate within the ducation as setting a climate within the ducation and Science is a thinking department, promotion and Science is a thinking department, preparing policies over a much longer span of timo than in other parts of government, according to Mrs Williams, Secretary for Education as setting a climate within the Department of Employment, soy."

Mrs Williams described her main function as setting a climate within the ducation and setting the ducation and setting department, preparing policies over a much longer span of timo than in other parts of government, according to the ducation and setting department, preparing profits and profits over a much longer span of timo than in other parts of government, according to the ducation and setting department, preparing profits over a much longer span of timo than in other parts of government, according to the ducation and setting department, preparing profits over a much longer span of timo than in other parts of government, according to the ducation and the duc

implications of the Sex Discrimination Act for the central Institute, presented its report to the contral academic board last week. The board voted to "receive" but not to "accept" the fundings, which include the claim that there may be n "deliberate policy to discrimi-

nato agoinst women".

There ore no plans for publication. The reput claims thus, according to the institute colendar and other official sources, there has been a decrease in the proportion of women staff between 1965 and 1975, even though lotal staff numbers hove gone up. It claims that women are enneenteded in

numbers hovo gons up. It claims that women are concentrated in low-pold, low-signus positions, and points out a remarkable deteriorotion in their coreor prospects in the jostituto sinca 1970.

Between 1965 and 1970, 41 per cent of sil promotions went to woman. Batween 1969 and 1976, the figure was only 13 per cent i 1970, the apparout turning point, was the year of the Equal Pay Act.

On salaries, the working party

On salaries, the working party ecknowledges that its information is incomplete, because its request for an monymous schedule showing Stirling Educational Monographs, department of education, Stirling University £1.00 each.

New unemployment plan urged

A call for the Government lo draw up e mora effective long-term plan ito combat unemployment emong young people was mede this week by the National Association of Education.

A statement issued by the essociation aid that the Government issued by the essociation aid that the Government is concentration assistance which created in plant urged association of potential assistance which created in plant urged in plant is incomplete, becausa its raquest for an monymous schedule showing salary levels by age, rank and aex was refusad. However, by comparing the salarlea quoted in 70 questionality of the salarlea quoted in 70 questionalit

appolotments, promotions and salary scales, and thet funds should be mede avellohle to rectify past injustices.

Dr William Taylor, Director of the Institute, seld: "As I understand it, there is a law in this country that makes sox discriolingtion an offence. I patsonally em very glad that this is so, but you would not expect the to cooment ou a report which says in affect thet tha institute is breaking tha lew. I have not heard eny Mr Tom Driver, the association's general secretary, releasing figures showing that more then 500,000 young paople eged between 16 and 24 are out of work, maintsined that the Training Services Agency was funding aome futther say their locel authorities.

He warned of the danger of colleges at the seme level as their locel authorities.

He warned of the danger of colleges have the Department of Employment, the Department of Employment, the Department of Education and Science and the Manpower Services Commission to get their heads together to retionalize the verious schemes thou ere evallable."

The NATFHE wants the Government to rasppraise the various ed hoc massures lotroduced in the past two years. It has also called for the

Give priority to adult council, unions say

weel: inged the Government in im-prove Britain's adult eduration pro-vision and give priority to establish-ing the boxg-promised national ad-vising council for adult and con-tinuing education.

The Association of University Teachers and the National Associa-tion of Teachers in Further and worded statement criticizing the Government for eighacks in the non-statutory education sector which, is claimed, had softered severely from reduction in courses and students' discretionary grants.
The statement warned: "In some

areas the provision of such courses is in danger of being eliminated entirely as lucal authorities, volun-tury agencies and universities come Ir added: " Educational pravision

for admits has suffered particularly severe cuts hat is a vital part of

tional leave and day release, an over-all development of the existing odult education service, and for initiatives by the Government in compermion with the relevant

unions.

A skilled and mobile workforce capable of responding to changes in the production system and divi-sion of labour was needed. The

com of labour was needed. The existence of a more literate, know-ledgealdie and politically sophisticated population and the continuing need for scientific and technological developments also theoremeded a system of life-long education.

Access to continuing and recurrent education should not bareliant on "unplyerised availability". There should be positive encouragement and advertisement under increosing financial string encouragement and advertisement gency. At a time when a planned su that the concept of continuing expansion is necessary there is a programment of the or recurrent education occurs widely accepted and the courses extensively used by all members of

Welcoming the Government's severe cuts line is a vital part of commitment to the proposed the education system and cannot be notional advisory council, that constrained to its present morginal unloss said that this should copusition without serious loss to the ordinate the activities of existing pusition without serious loss to the ordinate the activities of exist society as n whole."

The noious called for adequate on the coherent development financial support for students of all adult equation provision. agencies and advise the Government

DES policy 'long time making

The five-member group, set up in October 1975 to consider the implications of the Sex Diecrimina-

terost groups such as teachers oper-ated. But any direction given by con-ical gavarnment had to be accepted its partners in the educatio

The broadcast, which included contributions by Mr Gerry Fowler, MP, former Mulster at the DIS.

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liere are just a few examples of whot is available fiving direct from Luton and Gotwick during April and May. Sea your local travel agent for the Thomson Lokes & Mountstos brochura with full

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Austrian Lokes Gatwick: 7 and 14 alghts in Fuschi at the Hotel Secrose, depo 15th, 22nd and 29th May. 7 nights from £97 p.p. to £102 p.p. 14 olgbts from £138 p.p. to £147 p.p.

Lutoo : 7 nighte in Strobi at the Hotel Stadt Wien, daparting 5th, 12th, 19th and 26th May. From £95 p.p. to £101.

Austrion Tyrol
Gatwick: 7 nights and 14 nights in Sceleid at the Hotel Kur, departing

15th, 22nd and 29th May. 7 nights from £113 p.p. to £118 p.p., 14 anights from £168 p.p. to £177 p.p. Luton : 7 and 14 nights in Wilderawil at the Holel Baren, departing

7th, 14th, 21st and 28th May. 7 nights from £114 p.p. (HB) to £120 p.p. [HB), 14 oights from £183 p.p. (HB) to £188 p.p. (HB). Getwick: 10 hights in Interluken of the Hotel Royal St. Georges departing 26th May, £174 p.p.

Luton : 7 and 14 nights in loterlaken at the Hotol Interlaken, deporting on 7th, 14th, 21st and 28th May. 7 nights from £122 p.p. to £128 p.p., 14 nights from £196 p.p. to £201 p.r.

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Switzerland in Summertinie. Luton: 7 nights, depacting 7th, 14th, 21st and 28th May. From £141 p.p. to £152 p.p.

tioliand at Tuliptime Luton: 3 nights in Holland, deporting on 3rd, 10th, 17th and 24th

April, from £73 p.p. to £86 p.p.

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avoltability.

grand and an arrangement of all the comments of a material and a second of the second of the second of the second

ADVERTISEMENT

Plymouth a good place in which to study

All Plymouth Polytechnic mall bears this message on the envelope but the members of the Students Union would like to inform all prospective students of some facts that do not appear in the official prospectus.

We are the ONLY Polytechnic in the U.K. without a single purpose built Hall of Residence.

We have only one accommodation officer for 2,500 students.

The Polytechnic intends to Increase its numbers. by 25% to 3,000+ by 1980 and still no Halls of Residence are being built, although they were due to be started in 1974,

Much of the avallable accommodation is in the form of hotels, guest houses and lodgings or Winter lets in surrounding villages. This may frequently be expensive and unsultable for academic study.

Plymouth is a good place to study if you have suitable accommodation,

WE NEED HALLS OF RESIDENCE issued by Plymouth Poly S.U.

Group seeks to keep NUS and politics apart

A Notional Nan-Political Students' Grup held its first meeting in Combridge on Buintday with students from Oxford, Cambildge, Leods and Rroding attending. It was organized by Mr Geoffroy Betg, a student at Trinity College, Cambridge, and president of the Cambridge Anti-National Union of Students.

Mr Berg said this week : "We ore tcying to coordinate people who don't wont political issues mixed up with student unions. In the present NUS a few make thair viaws falt

In Cambridge members of the new group will fight the student elections. Two are standing for the union's executive, two for the delegation to the National Union of Students and two for the Council of Sonate

A scathing anack on the National Union of Sudents executive has recorded has conservative Students this week in the run-up to next month's NUS national elections.

The FCS, who represent 16,000 candidates and expect two of them to be elected in their second ettempt to breek the power of the broad Left,

The main FCS cendidates are: for president—Steve Moon, 32, a member of the NUS executive and member of the NUS executive and last year's president of Birming bam University union; for vice-president of Loicester University union; vice-president, education—Mr Eddle Longworth, daputy president of Bradford University Students Union.

need to insist on pre-entry requirements in mathematics us well as English. This series of criefs, the consultation on odd. English.

The said that consultation on education policy should not stop once the regional conforences were over.

Mr. D. O. Dayls, president of the two policy of the conforence over.

Mr. D. O. Dayls, president of the conforence over.

The Levels graduate trib router, he said, had twice ss as arts us science-hased students is

scientists among those failing to

scientists among those failing to high practice.

Mr Gunnell painted on that it were there had been an lactual the number of annualide core to the profession. Many gradual were templed in generally if teaching because, in a strickly ruppleyment market, they did a rapheyment market, they did a rapheyment teachers frequently in to schools that had the least class about whom in campley and segmentally in disadrantaged to than most needed skilled, training teachers.

Teacher training problems spills over into the next session of dedelate—on arhunt and working in the over the local students protessed.

tion ceremony tomorrow.

of employment since leaving school or secured a number of short-term

are out of work.



department of education at Silling University, devoted to the Scottish universities and devolution. Taking an opposing line, in fevour of keeping the universities under the UGC, was Dr James Drever, principal of Dunden University.

In another article, Professor Arnold Morrison of Stirling argued that devolving responsibility for the universities presented them with the chullenge of greeter participation in schools and colleges. Professor Morrison suggested three things. First, that universities north of the border ought to think and act more as e system tother than as eight separate institutions; second, that universities ought to be producing alternative blusurints for their future growth and change illustrating the ronge of possibilities facing them; third, there ought to be some facus on community provision. facing them; third, there ought to be some facus on community provision.

Stirling Educational Monographs, department of education, Stirling University £1.00 each.

Ficeting felice—Joss Naylor, the clumplon fell runner from Wasdale, Cumbria, has been awarded an bonorory fellowship by the University of Monchester Iostitute af Science and Technology.

people.

Mr Tom Driver, the association's

two years. It has also called for the

Don's diary

me. I try to resulted myself that I practice of Berufsecrbot as Gesin-

servont).

Bradford's Asian studies option meets local need

A major option in Asian Studies has been introduced in Bradford Cellege's Diploma in Higher Uducringe's tapional of righer con-cution in accounts for a quarter of the diploma course--which is concerned with the problems of achiety--and examines Asian com-minities resident in this country whose orbital bomoland is the original homeland is the

The diploma as a whole, says the course director, Mc Bob Faithou, is designed "no students who want to work with people in a committed way in the indicates who take the Asian community of the committed way in the indicates who take the Asian communities will be a significant to the community of the Asian communities will be a significant to the communities of the Asian communities.

Mr. Faithorn expects the dip-lona's graduates to be particularly radiable in education welfare work, where liabson between home and school is necessary, and in indus-tries (such as the Yorkshire tex-ils industries tolors) the purch force.

'management flavour'

only six students -- all of them Asian. But it was approved only current academic year and the cullege hopes that a publicity campaign will increase its intake next ammon. Bradford offers D and A level courses in all the main Asian languages, and Mr Faitharn expects that the caurse will eventually ampact same English students. Three of the six lecturers concerned with the pergraname and Asian

with the programmic are Asian.
The course includes an examinarion or manugration and tace rela-tions legislation and of research tions legislation and of research committed way in the urbon the Asian component will have to be flurat in one Asian language. The do, Hengali, Praijabi, Gajerati or Hublischetore they start the course. During their studies, they will spend an hour a regek learning Hindustani, a diabet which has no written from but Is understood by most Asians. rion of the facture that lead in immigration. The influence of religion, class, caste and family structures on the life-style of Asians in Britain is examined. And particular attention is paid to confliction attention is paid to conflicing pressures for conformity
— for example, in single-sex schmiling, in taking time for proper at
rock, out in wearing turbans,
Students will consider the parious

riles (such as the Yorkshite (extile industry) where the work-force
is forgely Asian and the management largely (English). Some
indents will be able to go un to
ilradford's lifel (Ordinary) degree
whin a view to tearbing massery,
primary and middle school children,
primary and middle school children,
and a statement and the kenealt.



Cultural assimilation under the microscope.

whit is view to tearling our sery, pelmary and middle school children.

The diplanates will also be well-equipped for community relations work.

The allowing the self-ent policies in one particular area, such as housing, elecation, employment or welfare.

The allowing the first of its kind by allowing the particular area, such as housing, elecation, employment or welfare. There will also be a theoretical work.

Mathematics given

They will unrol direction.

The new uniting to the first of its kind by allowing the limiting to the anisome unight to be the first of its kind by allowing the limiting to the success of those of these different policies in one particular area, such as housing, elecation, employment or welfare ambitings in become a major centre for around one tenth of the lacel middle some thing and continuent itself. The city of thought to be the first of its kind by allowing the limiting to the nation, one include \$20,000 Aslans account for ambitings in Britain, even the particular area, such as housing, elecation, employment or welfare ambitings in Britain, even the particular area, such as housing, elecation, employment or welfare ambitings in Britain, even the particular area, such as housing, elecation, employment or welfare ambitings in Britain, even the particular area, such as housing, elecation, employment or welfare ambitings in Britain, and include some that would include some thing and control of the new united to be the first of its kind the line of the head of the lacel mailtains in become a major centre for around one tenth of the head mailtains in Britain.

There will also be explained to be a theoretical area area, such as housing, elecation, employment or welfare area.

There will also be explained to be a theoretical area area, such as housing, elecation, employment or welfare area.

The pew united to be the first of its kind the line of the head of the head of the lacel area area.

'Baccalaureate' as alternative to A-level specialization employer needs

Industry will have a mean square of lightly runnierate management to almost in the 1980s: Hall University is officing understoned the properties of the prop

dles as approprieto end drawing on the varied resources and expertise of the college, During the final phase the student will show that he her gained the abilities he set

out to develop
The polytechnie's school for independent orddy, which will run the
now course, already offers of full
time DIPHS and a one-year postdiploma progromano leading to a dogreo hy indopendent study for which the port-time diplomets will be digible.

Reading for psychologists

The psychological processes in-volved in reading are to be the out-iset of a new one-year diploma course starting at Dundes Univer-sity in the autumn. It will be almed at educational psychologiets and a first degree in psychology will be a precondition.

a precondition.

Its basis will be the analysis of the psychological processes which underlied reading—how people recognize eymbols, pronounce words, move their eyes along the page and understand gromondri Rocent work in psycholinguistics and nouro-psychology will be incurporated.

Biologists get chance to catch up

by Clive Conkson, science correspondent

Biology graduates of the 1934s being given a chance to count with the lucest developme.

through a part-time MSc care a contemporary blodogy at the LU University of Ulster.

"Because himlogy has under extremely rapid development and sunto senses there have been feel mental changes in the manne of a subject during the has governed. mental changes in the name of subject during the last quarter of century, the cutties is nimed mentar those who qualified or graduating holology related subject 15 may years ago. In the university way.

School teachers are expected form the largest pruponion of the country in the programmae, which is not some one of the state of the programmae of the progr chance to quality in teaching, research and writing for a tempor-

sharts next October. But h i. s. designed to be a teachers' refiercourse. "It will have particulate lorance for people engaged in wide range of the applied scare from ogriculture and forein medicine und the usuay paramet, and industrial fields which pare employment for the majories working hiologists."

The subject-uniter will take incount not only major discount in moleculor and development biology and genetics, but ake the oxtent to which blolugy has been o quantitative science. Thus year numbers will be applied to of systems and pupulation dynamics acrology, genetics and evolution if

Throughout the two years of the course teaching will be divided a course teething will be divided at tweent the university compared Chiernine and the fredivater bat gicul laboratory of Tuan feet it addition a seven-day resident ited course, seven-day laborate practical course, and a final page ore planoed.

Shirley Willians noted that a metter of crucial importance to teachers, was ju-service training for

ing war being held; eigning e pethion ogainst the close-down of a bospital; participation in the move-

tions or community organization in which members of radical perties

ere wirking; visiting someone who

hos been orrested for alleged syon-

pothies with onarchists, aciling

leftlet pomphicts, criticizing the

list of a left publishing house; sign-

ing a resolution against the Bernfs-

radical party; usking for informa-

tion on and forms for o course run

by the Communist Porty; protesting against the pro-Vletnam war.

film The Green Borets, perticipation

parking neor a damonstration; conscientious objection; donating

maney to ony organizotion in which

Communist works; visiting o poli-

tical prisoner; even teking "undue

refuge in the public", eg, inform-

ing the public by leoflets ond meet-

lngs of one's own pending Berufs-

verbot ("undue refuge in the

public" has been made an offence

for any actual or potential civil

The decuments go nn. I stop

rending. Are these things enough

tn he considered on onemy of the

constitution? Not ell these paoule

lost their jobs or did not get one. It is enough, though, to "roise doubt obout your allogismes to the constitution and your will to defend the liboral democratic fundamental

order et ony time", to quote the standard phrace in lettore summon-

antl-Vietnom demonstrations;

verbot; atlcking up postors for a

and the goined would be goined with the are well still the are the simple facts behind our "commitment" to in-service relating a present; after the projected for 1981 to 10,000.

The service training courses. The number projected for 1981 to 10,000.

The service training as present; after the total number of teacher training places in the country by 1981, in moving well at the rotted the critical places. The training places in the country by 1981, in moving well at the rotted to the total number of teacher training places in the country by 1981, in moving well at the rotted to the country by 1981, in moving well at the rotted to the critical places for many teacher training places in the country by 1981, in moving well at the rotted to the country by 1981, in moving well at fact entired to the country will be composite the pope and the number extually decline? Can tacher deductions are the single status of the country of the service of t

I em forced to these reflections by the fact that I am currently re-spansible for the blenniol British Council course on New Approaches to Toecher Education." Two years shirley Williams noted thet a matter of crucial importance to teachers.

No doubt the "erucial importance to the outright contuminant of control and local government, of the teach lug profession, and of teacher adocestors, to the need to expand inservice training as o top educational priority. This year not only is there an increasingly amharrassing interest in our progress in that field, but a derge number of delegates have responsibility for lo-cervice training at the united in sopported in service training as the service training as o top educational priority. This year not only is there an increasingly amharrassing interest in our progress in that field, but a derge number of delegates have responsibility for lo-cervice training at the united in sopported in service training as o top educational priority. This year not only is there are increasingly amharrassing interest in our progress in that field, but a derge number of delegates have responsibility for lo-cervice training at the united in sorvice training as o top educational priority. This year not only is there as a ferge number of delegates have responsibility for lo-cervice training as the control of the priority. This year not only is there as in our progress in that field, but a derge number of delegates have responsibility for lo-cervice training as the control of the priority. In each of the priority is and local government.

In euch control of the priority is a field priority. The progression and local government, of the control of the priority. This year not only is there as in our progression and of teacher adverting the outer and local government.

of "proving" Verfussingsfrend-lichkeit (friendliness to the consti-tution) by carefully avoiding any links with those who are suspected of not being so.

Passed over

ment against nuclear plants or dumping grounds; working in any organization, like a prisoners' old committee, neighboarhood organization.

It has the formul right to do this. Only previously it had never mode use of that right. The miversity autonomy hod been respected. Now that the student movement genurolion by knocked at the duors of universities, schools, sociol institutions, all run by the nongeschiffelei Isnifflug out one's state, and has done so partly succonscience; being on the melling cessiully, the state is hastening to fortify the supposedly too permissions of the supposed of the suppo I was not in the student move

ment. I wes, without ony party effilietion, involved in the university reform in Fronkfart in the early 1970s which is now believed back piece by piece. I teach and write Merxist theory. Does this make me en enemy of the constitution? Nobody soys so; I just don't get the job for which the university holds me qualified. It hits bigger people thon me. Andre Gunder Frank, the internationally renowned political sclenust, niter his escape from the Pinochet's Chile, were number one on the list for professor of luternational relations in the social scleneos deportment. Frank is a left-winger; he might have talked about Imper.

he might have tulked about imperi-elisor, a branded cutchward now-odnys. The Ministry counct possibly pass over Fronk; so the whole list is ecropped, the vocency A, G. Pronk's fother left ieselst Germany for being o Jew. A. G. Frank, together with his wife ond son, leit Chile o few doys before the fescist coup, for heing a left-wing professor. I visited him to depressed man. The deportment does not dare to stond up ngoinst the Ministry eny more, i told o journelist; she was scandulized, and prepored a television feature, but her monoging director stopped it: it'e not the time for this kind of thing, we are enough under ettock

Court out

I get o letter from my lawyer. It digs out mother menory. Two months ago, in a inbow court room, where I fought to get my job back. The university, by arder of the Ministry, had declored it to be time iimited, while on legal grounds it was clearly a tonured position.

Two and o holf yours ngo that same court room was packed, ond with the efforts and solidarity of bers, o donartmentol secretary gos bock her job. She had been socked for olleged mombership of the Cum-munist Party in the early 1950s— the Verfassongsschuzt lind been working through the back files.

Since then, pressure has made solidarity cromble. The court room was empty. The judge refused to clear legal situation and the politi-cal mainstream of "die de oben" (them in authority) as he kept say-ing, he would not teckle it.

Elght years is enough to stort to love o job, to become pert of a natwork of cooperation, friendship, relodous, to become rooted, I enjoy lecturing and living in Edinburgh.

But I would enjoy it so much more the Bern/sverbore? What about freely if I knew I could go on work-wilting this article? ing et home.

Birthday verdict

of rest, my birthduy, I sottle down et my desk ogoin to read the supeni court wordlets. A pollriesi party can only be doclared successful tributal by only be doclared unconstitutional by the Supreme Court, the Constitution says. But that same Supreme Court soys, although it does not declare a political party to be anconstitutional, "the atemborship of a political porty that pursues unconstitutional gools" (what says so?) "will be enough to raise doubts ohout the suitability of a candidate" to became a civil servant.

The state is the only employer in the educational system, "Friend-liness towards the Constitution" has become a necessary qualification for etate job, although article 33 of the basic low explicitly excludes

ruciol, religious and criterie.

Hut, says the court, the relation-ship between state and civil servant is one of truat and an abligation of allegionee. "If the civil service can-ant be relied on, then society and the atute will be last when critical situations arise." Criucel oiruntions, oays the highest administrative court, may olvoys arise. "Their coming about can never be exclu-ded." The civil servant says the court "must feel at home in the atate as it is right now", "a neutral, distanced attitude without positive inner commitment" will not do. A teacher, for example, "yould of liut, says the conrt, the relation least unconsciously rup the danger of influencing students in o way which might not be compatible with

Losing its grip?

(them in authority) as incling, he would not teckle it.

I lait the court with aliaky knees, not bolleving my own eyes end esra.

My lewyer says all the other similar coses heve bean pootponed aven further than mine. He soys I em lacky. I wish I could feel that wey lacky. I wish I could feel that wey a lacky. I wish I could feel that wey lacky. I wish I could feel that wey a lacky. I wish I could feel that wey lacky. I wish I we will not that for alleged contect with onurchists?
She was finally released, but it was enough to make her oick and lose any chance of finding a job.

What if I do not even got a chance to dispel the stote's "doubts"? Acedemic unemployment ie rising. Sociel aclettees, parriculorly political sciences, ore prone to the euts. There have to be some criteria of oelcction,

A iriond calls from Frunkfurt. He eonfirms what three friends have already soid in letters. There have heen demonstrations against the Berufsverbote in Berlin, Frankfurt, Dusseldorf and ather cities, with A central protost is planned in Hesse. More than 10 schools in Frankfurt are on strike, so is the

university.

Is intividuation losing its hold?
Will this moke an impact? Maybe things will change, after all.

Claudia von Braunmühl

The nuthor is lecturer in politics at the University of Edinburgh.

Dread letter

hare been quita lucky.

This week I set oslde to prepare

the several lectures, scuinsrs, etc.,

that I am sopposed to give on the

political situation in West Germony.

dig out the pile of poper elippings,

laws, etc. With it memories and

especiences start creeping up on

I was caught by the Berufsverbot

inrofessional bant after eight years

ol lecturing in the Department of

Secial Sciences at the University of

Frankfurt, which gave me aufficient

ary lectureship in Edinburgh and

after that, maybe, somewhere else.

Olten enough, people do not get o

I read through the docoments.

correspondence between the stote

administration and the alleged

l'erfussingsfeinde (enemics of the

constitution]. The state authorities

doubt commitment to the Constitu-

tion, on the busis of material eol-

lected by the Verfassingsschutz

(Special Branch) on occount of:

attending o meeting of the Com-

munist Party; condidoturo for the

Communist Party or one of the Maoist parties; algunture of a

radical party compalina leafler;

distribution of o leoflet among

whose signaturies was a rodical

party member; living or hoving hved in the same flat with " mem-

bers of the new left"; ectivity lu

a leit modant group; emdidature

for student parliament on e redles!

list; parking close to the Cour-

thuilst Party offices, when o meet-

documents, spireul court decisions,



currently ensuring that in-service training will actuelly decline rather then expand. "They" employ the

end the most effactive use of etaff time and opportunities, needed to create flexibility among teachers will be important.

Floaily, the leck of mobility to evitable in the next few years, with teachers steying nor only in the same profession but in the same even higher priority on the need for in-service training as both a personal and a professional refrechment. There are many other areas which could be fruitfully developed by in-service training. The above may be seen as some of the more immediate. What is further needed is a genuina regional strategy where teacher oducators and teachers can come together to decide on the priorities and receive the proposois of schools and individual teachers, so that education can be morn genuinely innovatory.

However, in spite of nile the obvious neads, the deadlock remains; and there seem to be only two ways in which it can be hrokan. The first is to establish a national bodget for in-service training which will; be nilocated to responsible regional bodget, The alternative is for the rate support grant to be nogotisted in such o way that local cuttorities will be required to earry out that entirely both, The alternative is for the noriously agreed commitment.

notionelly agreed commitment.

Both strategies require that eli

Among the priorities in such a missed in this White Paper, le raisease then expand. "They" employ the teachers; "they" own the activols i and "they" often do not have the rima, interest or inclination to listen to arguments which may lead them to a new oud costly ollocotion of scarce resourcea.

Meantima, no progrees is being made with regard to an alternative method of organizing in-service on a regional basis, the numbor of teachers likely to follow in-service courses naxt year already seems to have dropped charply, and staffing standards are falling.

What has happened to the widespread support for the James community interest. If we ore to maintain the interest recourse state to the farming for more teachers likely or for the James community interest. Thirdly, with the increasing in the nation's schools lass been dramatically reduced, yet we still day not ally reduced, yet we still day not introduced a national scheme, which

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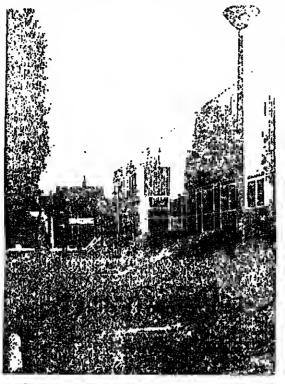
The Course is interdisciplinary and blues academic course work with tical experience in a selected public adolgned for each participant of in designed for each participant of the academic hackground foctions on a selected destination for item from his own country.

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o multifacated atrategy of heservice tenchers have new contracts guarding and support.

Among the priorities in such a mised in the White Papor, le ralesse strategy must be a commitment to for in-service training for a needed





Two stately pleasure domes of Leicester Leicester Polytechnic can boast two recently completed student onion buildings; the city compus union building, designed by Department of Education and Science architects and completed in June 1975; and the slightly earlier Scraptoft union, or the former college of education and har lounges. The et the former college of education and har lounges. The land to the slightly earlier strain between the land to the slightly earlier strain dance floor and har lounges. The land to the land to the slightly earlier strain of timber and patterns with the building designed by Department of lightly earlier strain designed by Department of land patterns with the land and strain of timber with the land and atmosphere than the slightly earlier scraptoft union, and har lounges. The land memories are strain of timber and patterns with the building land the slightly earlier scraptoft union, and har lounges. The land memories are strain of timber and patterns of lightly earlier scraptoft union, and har lounges. The land memories are strain of timber and patterns of lightly earlier scraptoft union, and har lounges. The land memories are strain of timber and patterns of lightly earlier scraptoft union, and har lounges are land to the land and memories are strain when lectures end, large numbers of shortrondings were a magnet of arm annount of usuable, flexibly u

et the former college of education, end the former college of education campus, designed by Shepheard Epsteln and Hinner and completed in January 1975. The two are in sharp contrast, respunding to very different briefs and constraints in

different briefs and constraints in very different ways.

The Scroptoft union was the last of e series of buildings designed for the former City College of Education on its largely self-contained and to a high dagree residential campus at miles from the city ceutre. It occupies in attractive site overlooking playing fields on two sides and with woodland on the uther two, separating it from the rest of the

Met that site is in itself o worktho union, students argued strongly that it should be et the centre of the compus. With residence huildings all ebout, however, this would either have produced unacceptable noise levels or—if it had been put under-

and the coolness of glass and steel combine in give atmosphere and

does it work? The hillding has an unforgertable place—even if for its shortennings and (ns must be the casa in any student community worth its sult) its articulate critics. That complicated rouf did leak; the usa the building for the size of dance they wanted to run, the student onion had to insert extra fire doors; the bar and the bur store and also sine as a flowibility of the sun also sine as a flowibility of the sun and the bur store. donts; the har and the burst store indictionally underestimated the drinking enjacity of the student burst, whose experience and contently; the union offices are tucked behind an unglazed door when they ought to have an upon comparity; and the building suffers from some unions built form the subject of a forthcaulug Design Midetia. Architects, shops, a bank, and a land of the property of the union building suffers from the first whose experience and content to have an upon country and the building suffers from some unions but tool shortest whose experience and content whose experience and dones; the bar and the bar store hadicrnusty underestimated the sluping away from the dmin. Not perhape a design funt, but to the student moder the shower it is none the less a real irrination.

nlity, and features such as the stair-well rising from the foyer but the large hax built of CLASP componelegance. lirst fluor bar lumge area, and its So utuch for appearance. How outside balconies, mark it out as

ebout, however, this would either have produced unacceptable noise levels or—if it had been put underground, as some people auggested—sided to both construction and running costs. The edge of campus site seemed to chose making the decision the less a real irrination.

The Scraptoft union cost £135,000 and provides \$11,180 square feet (1,039 squore motres) of floor apace ingeniously arranged of different levels and with movable folding walls to offer maximum flexibility of use. It is always possible to criticize such e building. What are

ingly in three steel namels and shing red brick. Its largest state, called "the arena", is a very capacious dance floor with raised terrares for The slightly never union on the pulytechnic's main city centre campus, completed in June, 1975, ut a cost of about £270,000, provides

It attracts two kinds of emiceous detalled complaints, such as that the tack of these miss bold-layatorles are inadequate at peak in it; was, a consecute of periods like hig dances; and that, main such the farmula of cause a main entrance near the constraints that applied R donce, sounds of revelry by trielly sometimes makes life difficult for those trying it sleep or revise for 1978, or 1970, any well on a control of the state of t

Perhaps no academic has suffered as much vinperation as B. F. Skinder, the eminent helaviourist. His books have been received with a hail of critical gunfire; his psychology has been called vacuous, irresponsible, unscientific, without a psychologic he himself hus been called a fuerist a moralismanlar a collect a fascist, a diegalumanlar, a cold-hearted manipulmor; and these accusations have come front distinguished figures: Noam Chomsky, Thomas Szacz, Carl Rogers, Rolla May, Stephen Spender, ta name u

of My Life, has escaped the custom-ary hawl of nutrage, except la H. J. Eyschck's review in The THES, Published last year, this first part of his autobiography has generally been warmly received. The account of his hoyboad in Susantal American Susantal Susanta Susantal Susantal Susanta S quehanna, a railroad tuwn in Penn-sylvania, has been preised for its insentimental portrayal of similtown life in an inancem oge.

Iranically his outobiography is the only bank not to attempt an exposition of lik behaviourist views. With the minus of intense frustration Eysenck laoked in vain frustration Eysenck Inoked in vant for a behaviourist interpretation of Skinner's life. He missed the point, "The title 'Purticulurs' was chasen very carefully", Skinner said in an interview, "They are particulars, and I would like to see that kind of autoliography myself. I dislike strong interpretation anyone can possibly make sense out of a biography in terms of any known system, behavloural, Freud-lan or anything else".

Why lins Skinner aroused so much hostility in fellow psychologists? He himself is a friendly, diffident man, with a lively sense of humon ano considerable personal characteristics.

of humon and cunsiderable personal chorm.

Perhaps it is because he is anything but modest in his assessment of his work. Almost single-hondedly he has developed the theories of hehaviourism, the school of psychology whose programme is to "consider only those facts which can be objectively observed in the hehaviour of one person in its relation to his prior person in its relation to his prio environmental history".

These are Skinner's words. Is often difficult for laymen understand what behaviourism withous a thurough knowledge of early developments in psychology In essence Skinner applies thu Darwlulan theory of intural aelec-tion to theories of human behaviour.

He says a person will exhibit a whole range of bohoviour: certain kinds will produce consequences which, because they are pleasant or sutisfying ("reinforcing" in Skinnerien terminology), will maintain that beliaviour. For example we put spectage to the example we put snother log on the fire becouse when we did it the

first time it made us warm.

The environment pleys the same role as it does in Darwin's theory: it selects cartain kinds of bebaylonr end theraby increases the proba-bility of that behaviour.

Behaviour is thus governed by the probabilities of the environment the probabilities of the environment acting on it: we continue to throw logs out the fire because of the high probability of keeping warm by burning them. Knowing this, man can alter the environment to achieve e shift in behaviour. In this way he can himself select, by manipulation of the environment, desirable behaviour in himself and bis fellowman.

contemporary values are obsolete. Published in 1948 it provoked im-

Burrius Frederic Skinner, now 72, has officially retired offer many years holding the Edgar Pierce chair of psychology as thereard. An emeritus professar, he still lectures a answers correspondence, but he has not conducted any experiments for 10 years and does an attempt to keep up with current research.

He enjuys a leisurely but strictly regulated life at his bane in Cambridge and whereas recent years have been taken up with clarifying, caplaining, attempting agala and again to reacute his position and refuse his critics, he has now abandened the role of apostle, and is seen to conduct—and in which has problems are obsolete.

Burrius Frederic Skinner. now 72, has officially retired offer many years in which he would reconcile two aspects of his rhoraction. Then, turned with a novel, in which he would reconcile two aspects of his rhoraction. Then, turned warks. It has sold almost two million copies and is still selling alongsidu the children sanguintcy—so they're putting up building alongsidu the children's house where the parents may live.

Their mein product is hammocks, woven out of nylon rope. They're gifts. There ere wires coming from taken as a blueprint for a host of communities that has been translated luto many languages and it has been translated luto many languages and it has been translated luto many languages and the has been translated luto many languages and the children's house where the parents may live.

Their mein product is flammore and the children of they're putting up building alongsidu the children's house where the parents may live.

The workspoce was Interesting.

Their mein product is flammore and the workspoce was lateresting.

The workspoce was lateresting woven out of nylon rope. They're gifts. There ere wires coming from taken as solved by a scientific technology of turner.

Walden Two d

rooms. It's a aucceasful thing."
In writing the novel, Skinner
made an important discovery, which
he expresses through Frazier. "1 he expresses through Frazier. "I remember the ruge I used to feel

who have challenged the traditional understanding of human motivation. Psychologists, as sensitive as others to essaults on their own independence and worth, have responded by trying to demolish the whole adificate behaviourism and its principal conditions.

doned the role of apostle, and is

cancentrating entirely on the second and third vulumes of his auto-

hand, has not been envisaged aince the days of Sparta", Life Magazine

to essaults on their own independence and worth, have responded by trying to demolish the whole adification of behaviourism and its principal architect.

It was with hopea of being envirier that Skinner began his careor. During his filtal year at Hamilton College he sent off his short stories to Robert Frost, who told him they were the best he hed read for environments. But he soon discovered he was not to be a writer. He became more

twhen o prediction went awry. I could have shouted at the antijecta of my oxporlments: 'Behave, damn jyou l Behava os you ought' i Eventually I renlized the subjects were always right. They always behaved ee they should have behaved, it was I who was wrong. I had made a bed prediction. hed made e bed prediction. . . . Whet a strange discovery for e

nology. In recent years he has he come more desperate, more shrill, as he sees the methods he knaws to be right rejected.

The human race cannot afford the illusion of freedom, he stetes egain end again in Beyond Freedom and Dignity. In a recent lecture he said nations could not talk about restoring "confidence" in the economy ar in the democratic process: it did not mean anything. Confidence oud praductive behaviour were not course and effect: they were both effects.

"In propose to solve a problem by restoring confidence is to neglect the kinds of things that can actually be done. Only when we begin to look at how we can restore confidence do we begin to look for an explanation of the behaviour confidence was used to explain," it is said in a recent address called "Where ore the behavioural sciences when we need thom?" Skinner does not proscribe how environment modification should be achieved. Behaviourism is the way of looking at samething, not the prescription. "You can use it any way you like, like atomic physics: you can make a bomb or not make e bomb, that's not the physicist's question." The point had been understood, he believed.

"The whole thing is very simple.

understood, he belleved.

"The whole thing is very simple. It's getting oway from the individual as an initiating, creetive self to environmental control. Darwin got unway from a creator to a selection of random changes, and we've got to do the same with human beliaviour, so that instead of a creator inside, we make the uperant reinforcement of random bahaviour which shapes the cavironment. It's the same process.

which shapes the cuvironment. It's the same process.

"If you stop looking for explanations uside and look outside, almost hunediately you'll flud something usaful. About confidence—if you say he could not do something because he didn't here say confidence, you haven't asked the real question. The raal question is what was wrong with that persou—his history, his genetice, or something else about his situation. If you say he didn't have the confidence therefore he didn't got the job done, it doesn't sny anything. All

it's a letbal mutotion to the culture that encourages it. I'm very bappy hed made e bed prediction.

Whet a strated discovery for e would-be dictator that the unity effective methods of control me positively reinforcing."

The notion that Skinner is a would-be dictator has never left his critics. It a Skinnarian society, thay say there is little placa for the rebel. "Thot's true, but what good would the rebels do?" he replied. "They were essential when you had e bad system, but why should you have a rabel in a good system?

The result of a science you had people who fought like cets and dogs over what was the truth about the gene is like there aren't ony rebols on the principles he has outlined and there we not much likelihood.

the probabilities of the environment acting on it; we continue to throw probability of keeping warm by probability of keepin

The other miticism, mader.

Leicester polytichnic mis-

tects failed to rater for events, where one part al oding needs to be sum off lorg customers and the ten remain

diramed of tabilities

Enter right, creating trends and growing all the time. The modey reaks of Marsian, strong groups in City, Haffield, and the following strong and the times are being an inclusive strong following and the following strong and the moder from the following strong and the strong following strong and the following strong strong and strong strong and strong strong strong and strong s Frances Gibb on the emergence of the Federation of Conservative Students

Chinese check-up after the revolution

John Cleverley reports how the fall of 'the gang of four' has focused China's education rethink

The changes made in China's education during and since the Cultural
Revelution are under streng strock.
This is part of e national questioning where the eppertunity re attrihute fallures in econemic and social
policy to "the gang of feur" has
brought meny issued into the open.

brought meny issued into the open.

Altheugh China's education has been quietly modified over the post 18 menths, outspoken objectors like the university man Liu Ping, who claimed that university standerds have fallen disastrously, ivere denigrated ea "rightist deviatiosist" and "anti-pacty". Merit is now being discereed in some of now being discereed in some of

Education wes en occa where the radicel philosophy woa dominant. In educational Institutions loyalty to this line, and the reporting ef disdication wes en occa where the dicel philosophy woa dominant. In ucational Institutions loyalty to is line, and the reporting ef disyalty, were routes to power. Sancins were spplied, which belps plein why many of the young who light well have suppocted them dit of. A recent greduate of Peking anguage fustitute told me: "Their regrammes were attractive: but beir actions weren't." The rodiculs olicy of dispersing the young over hina after graduatien had the ffect of reducing their power base, and deradicalizing the educated youth.

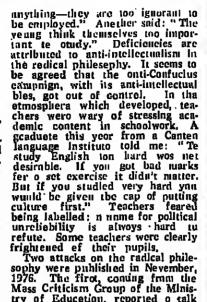
Leading oupporters of the fout in educational institutions heve been purged, teachers stood down, and university entrence examination, in solution to two persone tromed in different ways: one with both bourgeols censciousness and culture; the dispersion of twithout culture. "Which kind of person du you prefer?" Chang asked rhetorically. "I prefer without culture. "Which kind of person du you prefer?" Chang asked rhetorically. "I prefer without culture." Cheng, Ministry officiels declored, was in effect calling for the abolition of line culture." Study is useless."

The secont enterior, was in effect calling for the abolition of line clucking for the abolition of line culture. "Which kind of person du you prefer?" Chang asked rhetorically. "I prefer without culture. "Which kind of person du you prefer?" Chang of many controlled in the calling of the collision of interior in the controlled in the controle this line, and the reporting of disleyalty, were routes to power. Sanctisns were spplied, which belps
explein why many of the young who
night well have supported them diti
not. A recent greduate of Peking
Language fustitute told me: "Their
pregrammes were attractive: but
their actions weren't". The rediculs
policy of dispersing the young over policy of dispersing the yeang over China after graduatien had the effect of reducing their power base, and deradicalizing the educoted

Leading supporters of the fout in educational institutions here been purged, teachers stood down, and political acoupings disbanded. At the Peking Foreign Language Institute, personnel are reported "lil" or "gone away". The Joint Criticism Group of Peking University and Tsinghua, which leil the attack on Lui Ping, has been prescribed; and et Peking University the philosophy department is reported to have been decimated. A major reinterpretation of the

A major reinterpretailon, of the Cultural Revolution is under way. The bloodshed of its closing years is uliuded to quite openly. The young of the peried heve been named "tools of the four" who "robelled sgoinst the prolessriat". At the some time, the worth of the old cadres is proclaimed. Here a revaluation of the pre-1966 genotation is implicit.





try of Education, reported o talk by Chang Chun Chlue, ene of the four. A year earlier Chang had opeken of two persono troined in different ways: one with both bourgeon and column to the consequence and column to the consequence and column to the consequence and column to the colum

ior handing in a blank paper in his university entrence examination, insisting that his work had left him no time, for study. The reluctant camilidate was admitted in university, joined his leading body, and spoke out nationally for radical uniteless.

curriculum, encrooch on valuality space, and overwork the most skilled pupils. Without plenned facilities for work experience, however, it is unlikely that the Chinese city student would ever enter a facing state. spoke out nationally for railed imiteles.

Now it is disclosed that Chian did in fact hand in a paper, that it gsined him six marks, and that he had attached a utoto tequesting to take me, a praduction team leader, late consideration from ameng the candidatos. Ills alleged urrogeneo on the public platform did not endeer him to amisences, and his downfall scents unmented.

One serious charge against the evet, it is unlikely that the Chinese city student would ever enter a factury gute.

Many purents and maplis still oppose the practice of sending middle (high) school graduates to the countryside. It also warries some calculantists, for it is commonly held that the two-year break has invered tertlary entrance standards.

Become political reliability has been a major facture for selection for tertiary studies, little incentive

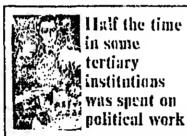
do in the country loter on.

Eye exerciseo in primary school are o fur ccy frem the work they will logical than economic, and the sight of yeung peeple nurching to communes and factories with quits en little stress in discussion. The new of young people murching to com-munes and facturies with quilts on their bocks will continue. meir bocks will centinue.

Scheel and university factories ore oinflurly secure despite the fact that some fuvour conumb efficiency ever ideelegated.

The length of schooling continues ciency ever ideelegical purpose through the introduction of nonin he an Issue, especially in tertiary institutions. Are three intercupted years enough to reach basic com-petency in English when mast of the labour intensive, near-autemation, practices. These workshaps mu now well integrated into regional and expert planning, and secial life. Seme fear that the factories will ponelt timo from the aeademic entry starts from scrach? "Can you tell me", an official asked scath-lugly, "how Chinese medical schools can teach in three to four rears what used to tegairu six to eight, when the present course includes Chinese traditional medicans as

The time spent on politics in each cational institutions is being on. In Canon It was explained "Recent graduates are mure strongly moti-vated, but their acudemic level is nat as gand as previously."



Is alluded to cutte or only. The young of the peried heve been on more of the course of the peried heve been on the production. At the some time, the worth of the old cadres is proclaimed, tiere a rovaluation of the pre-1966 genoration is implicit.

The rethink results from dissatisfaction with school and university output.

The rethink results from and university output.

The rethink results from dissatisfaction with school and university output.

The rethink results from dissatisfaction with school cadres and university output.

The rethink results from dissatisfaction with school cadres are not to be a set of the school s

to say conclusion. When we spoke of the control of

In turn this will put presse eommunes to improve sudy in grommes for those receive and colucation. Peking University informed its students that the lier of "closed book" examinativill increuse. will increase.

The deractioning of the miles ities is being conducted with a conspection. When the head and deputy head of the placementate from Tsinghas a consistent to Peking University republiation, a surprisingly older denunciation took place. No be the style of the presentation of much to likely sympather is t

Although members of he p connected and revolutionary emittee were jurged carly his larged behind the foreign insertioners in putting up por

ugainst the four.
Internal disputes have eccum
the Peking municipality chie indiversity groups for not possible the campaign against the claiming that they were "labeled the masses" and "diverting transparient. For their part, succepticized the Peking muching for publishing an edited verse; the masses of the part of the publishing an edited verse; the masses of the publishing an edited verse; the masses of the publishing an edited verse; the masses of the publishing an edited verse; the publishing and the part of the part of the publishing and the part of the publishing and the publish the university pusters and adding some of their own. The were also objections, "surprise anger", that foreignets had in the news of the detention by

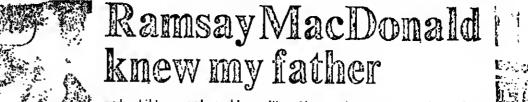
Peking students.

The Man tse-Tang "65;
prupaganda teams" ordered;
the universities at the close of
cultural revolution hare of
little part in the debase of
They seem likely to lose that Winning over the tertury in tions is of major impounds: Hou. In Nanking in Hegenbe; oniversity was tirtually closely several days for mass meeting. debate over fature policy. Social and economic due times may have led to a show

in first-year entolments. A: Shanghai university, fing-students due in August bit appeared by December, Things an effective reduction in 6 study time from three to mat

u half years.
The universities have not k
recovered from the effects off tural Revolution : numbers aret dawn, subjects limited, and a student ratios imffiriently l Potential for morest exists 1882 among packets of support lentadicals, but among sudens cannon tullor courses of third choice. Hur would wish to remajor disciplion, but less but resourch by postgrands see grant projects which are grants and the see and the see

petarrel. The waden's cariculus by cational institutions community. undinly darrow in teens and without. In the lamping inflic-matern literature has been the



David Marquand, author of a new biography of the first Labour Prime Minister

David Marquand MP has been leverent about hos entire the server about political many academic life. "I have about political server in the senier cannot be the stand what it is like because at the standard political many academic life. "I have a much kind annoya academic life. "I have a much kinder, a much kinder, a life political lox end the senier cannot be the more about political decisions." Some of the conventional explanations of the conventional explanations. The conventional explanations of the conventional explanations of the conventional explanations of the conventional explanations. The conventional explanations of the conventional explanations of the conventional explanations of the conventional explanations of the conventional explanations. The conventional explanations of the conventional explanations of the conventional explanations of the conventional explanations of the conventional explanations. The conventional explanations of the conventional ex

BFSkinner,

behavioural

psychology

continued from page 7

prophet of

Surprisingly, he has net been identified with unconventional political movements. He has eften been called a fascist, but his record dees net bear this out. All his life he has heen e registered Democrat. A treditional liberal, he once called Richard Nixon an evil man en television. This last election presented problems for bim because he distrusted Csrter's honeoty and was raluctant to vota at all.

But he is cynical about the workings of the democratic precess in America. He becomes inteesely angry of the power of lobby groups and is cenvinced that many important decisions are distorted by bribes.

"I don't think a netional election is a reasonabla thing of all, f don't chick people vote because of their chances of influencing a national election. As Frazier points eut in Whilen Two, your chances of baing.

"Meet of the Revolved his baby daughter in en nircrib for two end is a half yeers—a large glass-walled in controlled acviron-in the called the controlled aviron-influencing in the sexperiment. He rolsed his baby daughter in en nircrib for two end is a half yeers—a large glass-walled in meut for on infant. But the Skinner bex, ss it was dubbed, bocome noterieus, aed lic was subjected to much peraeuel vilification for this experiment. Though the abuse has hurt him, be has ne regrets: his deughter grew up normal, happy and well-adjusted (she now lives in Louden), and his twe grandchildren were also raised in an alrerib.

But on this, ea en eo much elae, he feels he bas been misuoderstood. Mucb of the confusion he blames on the early hiotory of behaviourism. The first explicit behaviourism, and the confusion he blames on the early hiotory of behaviourism. The first explicit behaviourism while a proposal in About Relouiversem. Whether of the confusion has been misuoderstood. Set the study of behaviour work in the case of life and the confusion has been misuoderstood. Mucb of the confusion he blames on the early hiotory of behaviourism. The first explicit behaviourism which are the confusion has been misuodersto

Education bus probably been more receptive. In December Skinnet addressed a group of Swedish educators and bas often; spoken on the subject. He is especially interested in teechlog-machines, as they demonstrate as clearly the principle of positive faloforcement: the right answer chances of influencing a national "Thio may have been a strotegic election. As Frazier points cut in Willed on the way to the poll are killed on the way to the poll are psychologiots at the time balleved

where Mr Histary Marquand Mr held in 1900. He retained his not singuist, and posses for thought before answering a question he has not considered. But the is usare bus not considered. But the set used to considered the party principles. Like most of the party principles. It have never the decident which MacDonald as in this treatment in 1931 convinced that MacDonald was altering him in the face.

A third way in which Mr Mardund more held in spired nor the hold he women. It was really deeply invelved with the beek anni politics was nestively distracting. I have feund writing it immensely satisfying, far more satisfying than anything fave one. It is the more satisfying than anything fave one in pullifice.

He had a research fellowship at St Antony's Chilege, Oxford and was a lecturer at Sussex University for 18 menths when he was begleaning to write the buok. That was before he became Lubour MP for Ashfield in 1956. Two years ago, after much heart the beek about the heart the beek about t

June 1935 : Ramsay MucDonald leores for Bucklagham Palace to resign

They started their research in the same year and have talked over their cenclusiums on a number of occasions.

him for it, though I suppuse ell the reelly great politiciums have been 100 per centers."

Mr Matquand believes there ore

Equally importent hes been o book which is not a history book at all. He says W. G. Ranciman's Deprivation and Social Justice, which argues than working-class militancy coincides with a period of high appropriations rather than it of high expectations rather than a slump, has chonged his conception of Labour history. It has helped him see the error in the picture of o militanc Labour movement con-atuntly betrayed by its leaders, "MacDenald made do secret ef his

appreach to pelitics and I don't beliava it wes out of step whith the majerity of the werking class."

Does he think his own political views hove helped him to sympathize with MacDonald? He dees not share MecDenald'o views but

sonality which especially eppeals to biot is the fact that be had many interests outside politics. "I like

lessons to be learnt from bistery and that the greatest lesson the Lubour Party can learn frem Ramsay Machonald and his colleagues is not to cling blindly to an old doctrine when a new situation demands a different approach. For him the study of MacDonahi has been particularly fascionaing for the light it throws on the hold of the trade unions ever the Labour Party. "The unwieldy structure of the British Labour Party mokes it nuch barder je medernire thun tha
Geiman Seciel Democratic Party
which has individual membership."

Do views like his have o future in the Labour Posty? Mr Marquand thinks se. He hes been parliamen-

thinks se. He hes been parliamentary private secretary to Mr Reg Prentice but has remained on the back henches since he veted in faveur ef going line Europe. However, ho rejects the picture of himself as a disillusioned intellectual turning his back on the porty.

"There was a time when I was very depressed indeed about the Labeur Party. That was under Wilson. I think we took sewerel steps backward while be was in power. I am mora hopeful now, mainly because of Callaghan. He has turned ent to be much more courathize with MacDonald? He dees nut share MecDenald's views but thinks ha may share his attitudes. Ha oces him as a secial Dacwinian striving towardo a final goal, "It to a view which I obviously do net share. Nor do I have his belief in the goedness of people nor in the possibility of ending pewer politics, he had but the Labour Party must represent the whole nation and not just one class. "I do not shata the abborrence of whole nation and not just one class. "I do not shata the abborrence of the world many socialists at the National Government coalition. Neerly ell the socielist portice on the continent form coalitions. It is expected that they will. Nobody finds it odd. If in October, 1974, the Labour Party has refused to me positively desirable for its to moke a deni with the Liberals."

One espect of MecDonald's personality which especially opponis to both as a designed by David Meronality which especially opponis to but has remaided on the present the back henches since he yeted in faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. However, ho rejects the picture of him-faveure of going line Europe. Though his back on the picture of him-faveure of

Remsoy MacDonald by David Mer quend is published by Jounthae Cape. Price £12,50.

whit a moment, human behaviour by atguing that e scientific enelysis is an important subject. I think changes man from victor to victim. If, lastead of saying 'this is psychology, let'e have a behaviouristic psychology', he had oaid 'I want a science of behaviour', he night have got further along. But when the has freed him frem construction of a world which has freed him frem construction of a world which has freed him frem construction of a world which has freed him frem construction of a world which has freed him frem construction of a world which has freed him frem construction of a world which has freed him frem construction.

it came to the actual process that could be put into a book, he had nothing. "A science of behaviour has hoed said the deliumanize men because it found out ebout him, but not very necurately. He had 'hebit' as a concept, which is not a good concept. He did not take over Thorndyke's very nuajor contribution, the law of effect, which is what became operant cenditioning really."

In the public mind Skinner's development of these early positions has been simplified as animal training; getting them to play ping-pong just seems a superior form of a circus turn or, worse, putting idees in animal's heads.

"A science of behaviour has hoed said the deliumanize men because it is reductionist. It is said to dool with one kind of fact as if it were a different kled—as is done, for example, by physiological psychology. But behaviourly deos not acother. It simply provides an obtained in the behaviour in the behaviour; it simply analyses the behaviour previously explained by the luvention of A science of behaviour has been

clearly the principle of positive relations of positive principles of positive relations of the way to the poll are relative elements. The right answer will allow the student to progress farther, the wreap response were than your chances of influencing a notional election.

Long befora that evolution of today's computer menaged education. The hasement at Haryacd.

Teoplogy is another field in which the hasement at Haryacd.

Teoplogy is another field in which the behaviour provincing and relative to heavily on almost multiments. So me compain you can be the expartments. "Some bortile bings have been done in the name of behaviour and the manner of the provincing of the social and the expartments. "Some bortile things have been done."

Entit the appear of the statement of the provincing of the social and provincing of the social carried to the care of a baby, and appear man effective technology, be all the manner of the provincing of the social carried to the care of a baby, and appear and boforo Senete investigates and appear man effective technology, be a more effective technology, be a more effective technology, be a more affective technology, be a



DOTICE BOARD

Chairs Action

F. Al. turdekin, associate portner of civil structural engineers of civil structural engineering at UMIST of poly, 1977.

Dr Rrinn Attison has been appointed to the personal chair of education at a colorate Polyrechnic and continues to hold responsibility as head of the post-graduate centre within the school of in classics of the Queeo's University of Beltast, has been appointed to a per-sonal claule in Old Testamoni Greek at the university.

Dr J. J. Morray, reader in childree's fendstry in the Institute of Decial Surgery, Loudon, has been appointed to the chair of rhild dental health at Newcartle University with effect from October t, 1977, on the retirement of Professor G. E. M. Hailott. K. Brewn, of present responsible Mr K. Brewn, of present responsible for the general auterrisian of the Autenal Retearch Unit in the department of paychology at the Queen's University of Belfast, has been appointed to the cheic of psychology. Br J. A. Barnard, reader in chemical technology in the department of chemical engineering. University College fondon, has been appointed Newton Drew professor of chemical engineering and the engineering forms a date to be afranced. fondon, has been appointed received.
Drew professor of chemical engineering and fuel technology at Shoffield tiniversity from a date to be arranged.
Dr K. J. Allier, lecturer in the University of Cambridge, has been appointed to the second chair of picchanical engineering of Shelfield University from a date to be arranged.

Dr. J. B. Pyn, reader in the department of pure mathematics at Sheffield Uni-versity, has been oppointed professor R. B. Batosbury, senior fecturer social administration at Shellield

Noticeboard is compiled

by Patricia Santinelli

ar J Pauline Gamble

University, has been appointed to chair of social administration, Applipments Mr Ben Farmer, head of the scho

Universities

Beifast negrast Lecturers: P. H. Craddork (library and information studies); J. D. Oro-furd (geography); Pari-time lecturer; Miss M. Cilley (behavioural sciences).

Cardiff
Superintendent, evolutile and such attales division of the library: M. L. Breaks. Assistant director, Cardiff University English centre for oversess students: M. J. Chiles. Promotens to senior fectorer: C. H. Knowles and N. C. Tempie Hilatory!; R. Attfield (philosophy); J. G. Evans (archeeology); D. G. Rhys (ecunomica); D. A. Wilsun, R. J. Breakspero and L. A. P. Kane-Magnire (chemistry); J. A. Bryant [botaty]; J. A. Bryant [botaty]; J. Cook land K. J. Orershot [clocirical engineering]; R. D. Jones ond R. D. Walker [metallurgy); F. D. Pooley (inheral exploitation); M. E. Davies [Welsh); R. G. Wallon [social administration). Premotion to sculor Str Jelm Brothersion, chief medical officer of the Scoulsh Home and Health Department, has been appointed to the chair of community medicine at Edinkorgh University from a date to

administration). Premotion to senior staff totor: t. D. Allan (extra-mural studies). Promotion to experimental officer: F. Q. Dresser (botany). In Journal of on-line informational plants will be published this month.

The Journal is being launched together with a companion hibitography computed by Donald Hawkins of Bell Laboratories, New Jersey, and covers the on-line information retrieval literature from the Late 1960s to the present. [It is published by Lemmed Information [Emropa] I.i.d. Woodside, Hunksey ttill, Oxford Ox1 5hr. Subscripton for the quarterly is \$45 or \$25 for individual subscribers.

History of the published by Lemmed Information [Emropa] I.i.d. Woodside, Hunksey ttill, Oxford Ox1 5hr. Subscripton for the quarterly is \$45 or \$25 for individual subscribers. Hcriot-Wntt

Directur, university sudin-visual ter-department of superiolem vice : Dr R, Moss, Lecturers : R, C, englueering, 1962-1976.

Bruwn [medicine]; Miss T. D. Met-caffe (ilental surgery]; E. I. Stentiford [rivil engineering]; Mrs S. Whito [restormive dentistry]. Temporary ce-search fellows: S. D. Makherjee and N. N. Fulton (electrical and electronic engineering); Miss M. E. Bowers Lebrated chamistary. engineering); MISS M. E. BOWERS [physical chemistry]. Temporary re-search officers: P. W. Bonsah and A. F. Champernovne (Institute for

Reader: Dr R. S. Davidson (cliemistry). Hirector: Dr P. M. Jackson (public sector eronomics research centre). Soulor letterers: Dr N. J. Noftsiln (obstettles and gynaecology); R. F. M. Wood (sorgery). Lecturers: W. W. Barrio sod N. K. Mayhury [surgery]; Dr L. R. Hartley (pyschology); B. J. Norton [bistory and sociel relations of science].

London Imperiei College

Feliows: The Ri Hon Lord Armstrong of Sanderstead, chulrunon uf the Mid-iand Bonk Ltd; Dr J. W. Durrett, CDE, director and former scientific Monsanto Lid; Mr E. Cutcliffe, MBE, registrar 1940-1966; Professor B. G. Levich, former professor of clientical mechanics, Moscow State University; omeritus professor J. D. McGee, DDE, FRS, professor of napplied physics 1954-1971; Sir Vincont Wigglesworth, CBE, FRS, Quick professor of biology, University of Combining 1952-1966, director, Agricolograf Research Council Unit of taset Physiology 1943-1967. Homory associates: Mr F. W. L. Croker, departmental superioredent, chemistry, sinco 1956; Mr J. C. Gonley, departmental superioredent, ciectrical engineering, 1962-1976.

Cambridge 52619.

"Tesching styles end pupil progress a lecture and workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett, lecture ond workshop to be given by Dr Neville Bennett on deviction of the duction of t Professor B. G. Levich, former pro-

Professor Donold Mackinson, North-Hulse professor of divinity at the University of Combridge, is to give the secood series of Drommon lecture entitled "The Problem of Evil" from Marrh 14-16 of the University of Sur-ling, Further Infurualian from Mrs L. M. Paterson, Assistant Registra, University of Stiriling.

"Economics in surveying and estate monogenient cuiteses" is the little of a meeting to be held at Leicester Polytochule on March 9. Further details from Richard Perkins, School of Building, Surveying and Land Economy, Leicester Polytechule.

"Medicine and Papulation", a one-day conference will be convened by the Society for the Social History of Medicine at Dr Johoson House, Col-more Circus, Birmingham, en Metch 26. Popers will explore smalled inoculation and vaccination, early modern obstetrics, and the influence of lociation upon feetility. Registrates fee: £3.80. Inquiries to Adrion Wilson, Cambridge 52619.

tory hos areused little enthusions among art students, that designers have pressed for histery of design baing o required study for design students, but that design historians ero not teo sure of what they can olfer—and one outst agree that little has been published in this field thou "communds unqualified support".

The news that "many of us have set up u loeso association of ell those interested in the blatery of design will evoke both welcome ont waroing. Welcome, if this aetlen does something to fill the still formidable gaps in the recorded dovolupment of industrial design; watting, against the temptation to the facts, and to cheose relevant facts me must contound a surplus of facts and must contoured design and expressing, and craftsman, clority and preclaim of expounding and expressing, and expressing, and expressing, and expressing and expre

Open University programmes March 5 to March 11

Recent publications

On-Line Review, a new international journal of on-line information systems will be published this month. The journal is being launched together with a companion hibliography com-

Schild and March 5

Live and the state of th

RADIO 2 1989)

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THE NUFFIELD FOUNDATION

Grants for Educational Innovation

Applications are invited for grants of up to £2.500 to support adheallonal innovations in undergraduate teaching at universities, colleges and polytechnice

Assistance with the introduction of new courses, moterials and the evaluation of existing and novel courses ail qualify for sopport under the Foundation's Small Graots Schame for Undergraduate Teaching.

The scheme was that following in 1975, slince when grants totalling £175,000 have been awarded. Applicatione received by 29 April 1977 will be adjudicated during June bnd those received by 31 October 1977 during December. Particular ettentipo will be paid to the originality of proposed innovation and the likelihood that they will be of value in fustitutions other than those primarily concerned.

Application forms and further details can be obtained from the Director of the Nuffield Foundat, Hon, Nuffield Lodge, Regent's Park, London NW1 4RS.

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lions : Images of "spailty (A581"; Malorists of History 1A100 ; eroo from 17.40 * Reading Development : Sounds and RADIO 2 (VHF)

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Tuesday March 8

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Wednesday March 9

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le casa you are leterested I append a table fer 1975/76 showing typical details. In making comparisoes with other institutioner readers must bear in mind that come in Loodon are about 10 per tent higher than elsewhere, that the courses at Brunei are predomining the courses at Brunei are predomining the course of the course as well as departmental, and that all costs, aveit including such items as research overheade not recovered, are attributed to students. Costs por sindent year:
Sits costs (heat, light, weter,
rates, repairs)
Academic services (library,
Computer, a.v. etc)
Centrol administration
Sindent facilities and
Eneral soundings

Capital met from income Total nen acadomic Acodonic costs including regipment:

Another including mate the actual cost of paretimo etugraphent:

Another including materiale dants. Thus using the antional ratio
Sir,—I have been asked by the sir including physics, chemistry and physics, chemistry 2,046. Higher proportion of purt-time trustees of the lote Prufoesor J. D.

Bological sciences 1,050
Mathematical studies 1,050
Social sciences, cducation 800

Even if all these problems could be grateful for the accumulation to the accumulation of the acc

wattling, against the temptation to mark out a reservation whotein another tribo of opacialists can work a mystique or baka o theory, to be fad to the student in the somblance of design history.

eatlon in general. Yours faithfully, JAMES HOLLAND,

Romford Road,

Incidentally each full-time student is counted as uno whether postgraduate or undergraduate; and purt-time of outent numbers are divided by the relative joingths of Sir,-I was flabborgsated to reed the suggestien (THES, Robruery 4) that the cost analysic carried out in NKLP Pelytechnic wap "the first that the cost analysic estrised out in NELP Pelytechnic was "the first detelled survey curried out by the Aritish pelytechnice or universities" (my listles). All the treuble that the University Greats Committee takes to previde 136 pages of detailed statistics in Velume 6 of the Statistics of Education ceries from to be wested. their ceurses. Central costs are divided equally among all attaients and departmental custs allow for eervice teaching. Yours falthfully, S. L. BRAGG,

Brunel University. The eoly fault that one can pec-haps find with the official etatistics is the dalay in publication, in that those for 1974 came out only en December 14 last. But I think you may assums that individual universities and a second of the second

Sir,-While the decision of North East London Polytechnic to publish sales are quicker off the mark. Certainly the finance committee of my own university council hoe already see the detailed analysis of the 1975/76 accounts which are in a similar form to these presented for

le casa you are loterested I

Social sciences, cducation 800

Average costs per student, reduced in fall is these problems could be accommodated tha figures do not indices.

1971/2 1972/3 1973/4 1974/5 1975/6

1,319 1,306 1,320 1,217 1,167 More letters poge 16

Students.

Even if all these problems could be accommodated tha figures do not indices.

I should be grateful for the loan unthorized biographic study. I should be grateful for the loan of ony such moterial, which will be acknowledged and returned in duo acknowledged and returned in duo many we need some measure uf output. The NELP survey begs thin 15 Manor Manslons, 16 Manor Manslons, 17 Manslons, 17 Manslons, 18 Manor Man

question by using SFTE's as Its neusure ut output which assumes oll stodeats ere equol. Even accepting this assumption the SPTE measure is inadequate because it makes no nllowance for student drop-out. A cheaper faculty on an SFTE cnicu-

Vice Chancoilnr and Princips).

Design and clarity of thought

obscure the evidence.

It is relevant to go back to the Coldstream Joint Report of 1970:

"The concept of . . . historical atudies in terms of oubjects has sometimes led to these atuiles becoming the easily supposed from

sometimes ted to these stilles becoming too easily separated from
the student's moin studies . . . complementary (and historical; studies
obould be an integral purt of the
student's art and design education,
informing but not illetating to the
creative appears of his work."

Posture in his More of Diegon

Persuer, in his Note of Dissent, goes even further: "It is clarify of thought and expression, it is unbiased recognition of problems,

It is the capacity for discussion and it is ultimately understonding

they must achieve. But to under-stand one must know the facts;

to know the facts one must learn the facts, and to cheose relevant

Sir.—There is in circulation an ingonieus chart censisting ef throu columns, each coutaining a dozen or mere in-fushion words, adverbs, adjectives, nouns. A coutbloation of any ona werd from oach celumn any ona werd from oach celumn and in relation is from this design college is to present the design college is to present the historical evidence in consequential form, in doing which it is reasonable that he will nftea put forward his own interpretations—but these must clorify and not obscure the evidence.

tan be renod on to had woight, it not clarity, io may pronouncemont. The liserature of design is particu-jetly susceptible to such flob, and Toni del Renzin's article "Mistaken

identites in the history of doalgu" (THES, Pebruary 4) cottles plenty.

Ha offers for instance "concep-

Ha offers for instance "concep-tually equivocal rhotoric" and "it is arroneous to extropelate bock

is arroneous to extropelate bock into the past the ceoroptually separable aspects, ohape, ourfaco, ossilles oud the activities specifying theor. After which he finds he reosonable to refer to "docisian-making or some other cotth phrase borrewed from the trondy jargon of management studios". Whose descent parado water.

isrgon is trendy now?
Is those a slim histerian strug-

Is those a slim histerian artig-gling to get out of this vorbosity? A salmary project might be to reduce this 2,000-word otticla to a tanth of its laugth, reteloing any percontible occaning. One doduction it that among other things it is

suggested that rempulsory art history has areused little enthusions

Cost aualysis .

similar ferm to those presented for

It over the past five yeare.

dstalled figuree of ite costs is to he. wolcomsd, I em afraid that the

tha total resources in a faculty nre devoted to teaching, Ignoring otaff in claiming that "no omailor listi-

The figuree are also considive to 186 bow SFTE numbers ore calculated and in particular to how part-time Business Studies, equivalents. The notional ratio 976 ueunly used in further oducation statistics oney seriously underceti-

19 Gandy Street, Exetor.

Exoter Colloge of Art and Dosign,

Yours falthfully, HOWARD LEATHLEAN. Dopartmoni of Graphic Design,

LETTERS TO THE EDITOR

of art and design education.

are ignored, the data still docs not exenting our costs and consider the effects of rodical otens such as an imaging closoos, increasing building use, lengthoning teaching time or ahortoning the nesdomle year." All these questions concarn more intended. oilow Dr Brosen to ciaim " wo cent claims mode by Dr George Brosan these questions concarn more intennbout the usefulness of the informatiou are a little promature. Indeed

costs rather than must costs are costs rather than unit costs are large than the costs are large than th

School of Social Sciences and Polytechnic of Central funtdon

Belslan Grove, London, N.V3.

Popular culture

we live, but which also embodies The consequence is that Rodwny repeatedly asks God to manifest blusself. Show mo. Prove your assumptions about the very uniare existence. Develop a thesis, ilm since this is no part of the design To take a paint from the article, design stands in the production pro-cess. Design is itself o process and its products can additionally be seems have an attraction for the mystical, seen with advantage in he part of \$

dynumie cummunicatium network. To his central ubjection-that the Thus, if we view "muss cummuolca-tions as ort", if we limit the discusbook lacks direction—I cont only roply that had he hothered to reed roply that had he hothered to reed the profice he would there have found an explanation of the genesis and purpuse of the book which is precisely designed not in argue a thesis hut to offer a series of possible approaches, to test the capacity or otherwise of existing disciplines to deal with inoterial insually ignared by conventional analysis.

The book is designed to be defined to be from grammutical grame an absence slow to matters of nestiteties, the discipline will have become so cirrmoscribed as to ecuso to mottor. The desperate need is to work The desperate need is to work towards a theoretical foundation for the history of design which can thou underpin and direct further research. Discussion of methodology hos been neglected and my contention is that this has prevented the subject from moking its rightful contribution to an historically informed social theory.

J holleve that we have much to learn from disciplines other than art history, and that the emcepts and methods of Mareuso represent a useful storting point. Only then will design desorve ennounnellou and become one of Raynonad Williams's "Keywords", or is this the very thing that my colloagues fear?

Yours falthfully.

administration that an editor's task is to add up the items and arrive at a total "strikes mo as on invitation to define a new orthodoxy. Thore see enough erities of that kind scattered through Britain's universities the lines and sestitetic theories. Allen Rodway's roview seems to offer evidence for the truth of that.

Yours falthfully.

C, W, E. BIGSHY, School of English and American Studios, University of Page Anglia

Sir,—I write to commend your allocation of space to the debate about the history of deolgn, olbeit one which so clearly shown the unhoppy pedigree of the discipline to be the noglocicd bostarit of art history. The issues relaed are of critical importance, tot only with respect to the ability of history of ilesign to estoballish itself as something with a master two contribution to make the our understending of the world in which we live, but which also embodies

I white to commend your allocation with intotest, if o degree af hafflement, Allon Rodway bowalls the way's review of my hook, Approaches to Penulor Culture to be present, oven marc alarmingly he perceives the present, oven marc alarmingly in other two populator culture. It is os though without meaces, as you will recall, by another the content of such a penulor culture to begin a review of my head of the statement that it is not in fact there. Thus he assures that I such a perceive into Allon Rodway bewalls the way's review of my hook, Approaches to Penulor Culture to be present, oven marc alarmingly he perceives the present, oven marc alarmingly he perceives the present of the best are to begin a review of my head of the perceive in the doubts the content of the perceive and the doubts the content of the perceive in the doubts the content of the perceive of what a be present, oven marc alarmingly its obtaint a be present, oven marc alarmingly its obtaint a be present, oven marc alarmingly in the doubts the content of the perceive in the content

precise importance (of structural linguistics) is still to be assessed,". Not so much a swallow; more a rentative nibble.

Ite then suggests that I am "scornful about (of?) those who define uppoller culture in terms of an opposite." Well, had I said as much I would indeed be deserving of censure. Itappily I did not. What I did suggest was that the distinction besuggest was that the distinction be-tween populor and "high" colture was not felt to be a real one until strenuous efforts were made in dis-tinguish between forms felt to be oppropriate to different groups. It was, after all, Matthew Arnild who defined culture as comething which "does not try to reach down to the level of inferior classes". This was

The buok is designed in be oclectic. I deliberately ubstoined from imposing rigid potterns in an area at experimental attempting to define buth its scope and its methods. Thus his finel administration that an editor's task is to add an the items and areas at a confer and are the items and areas at a confer and are the items and areas at a confer and are the items and areas at a confer and are the items and areas at a confer and are the items and areas at a confer and are the items and areas at a confer and areas at a confer and areas.



Populor culture : debate concesis a clash.

Western Marxism

lation may be more expensive in Sir,-I wonder whether I might be terms of actual graduate if it has a bigier drop-out rate.

Ilowover, if all these objectione

The state of t It does not seem to me possible both to dismiss the book as a bod

has been feunded. in their present form they may du mere harm that good.

According to your count (THES, February 4) the unit cost per student full-lime against (SFTE) calculated by faculty assumes that the total resources in a faculty me that the total resources in a faculty need to the total resources in a faculty me described to tascillar. Important that "no omsiler listing that "no

devoted to teaching. Ignoring otaff time and materials devoted to nther activition, netably recearch, consultancy and general edministration thus penolizes those faculties more hanvily involved in theea activities. An accurate unit tadching cost per SFTE should only include that proportion of total coste devoted to taaching.

The figures are also constituted to the proportion of the figures are also constitute to the proportion of total coste devoted to the proportion of total coste devoted to taaching.

An accurate unit tadching cost per portion of total coste devoted to taaching.

The figures are also constituted in the past and much increase the proportion of total coste devoted to taaching.

The figures are also constituted in the past and much increase the proportion of total coste devoted to the proportion of total cost devoted to the proportion of the proportion of total cost devoted to the proportion of the proporti eal admiration among historione int ilttle attention has been given

to the thinnese of the catogories in terros of which historical material

is onafveed. us more clearly than a comparisoe of Passoges from Autiquity to Paulatism and the book which New Left Books chose simultaneously to publish, namely Mex Weber's Agrarian Sociology of Anciont Civilization.

Andersou'e book is clearly struc-tured in much the same way as Weber's with two theoretical Weber's with two theoretical chaptors and a country by country chapters and a country by country enalysis of particular developments, but whereas Webor develops a whole range of cophisticated theoretical type-enucepts for enalysing polliced and economic eventa, anderson simply sticks to the crude notions of a slave mode of production and a faudal mode of production. Still worse when it comes to demonstration hie ascertions ebaut denonstrating hie ascertions ebaut the nature of structurel change, Anderson resorts in notions like "structural causality" and "over-determination;" which are contral to the so-relied Marklom of Althusser which ho now diomisses.

Althusser which he now dientisses.

I feel aure that someone of Anderson's remarkable intellectusis ability will have conteching to say about all this, but those of us who have been responsible for what he out called the "drenry provincielism" of British eoclology would really like to know where he is going now that he admits that he has led so mony of our students up such to exciting blind allow. such on excling bind alloy. ; Yours faithfully, JOHN REX,

Department of Sociology, University of Warwick.

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received increasing attention since about 1960, but only recently has it been realized have bitty or parachial neach of that attention is. Professor Edmand King says an averall view of who is involved, and where, and how, and what can be done about it is needed, and that we can no longer think of our own hits and pieces in isolation, either; they are part of growing concern everywhere for a new kind of education and training at that

Whole new concept

The whole business of post-enmunisory education and training is now
in question. Older models of sixthform provision (or that in Gyanasien, lycees and the like) are incrensingly discredited for their content,
orientation, and the skills they
impact — nor just in relation to
their suitability or otherwise for
"non-truditional" students making
up the swell of enrolmento but by
the measure of suitability for higher
studies now oud rapidly evulving
careers tomorrow.

That rejection is not limited to insuccessful students or approsed "newcomera" who are not quite "up to it"; it has been voiced repeatedly by university teachers and vice-chancellors, by researchero, and ministers of education since about 1966. The crescende of dissarisfaction has become more murked since about 1970.

Does that simply cell for e refurbishing of what we might coll the sixth form or lower-tertiary provision? The Schools Council Working Paper 4S (1972) had sensible suggestions for curricular requirements. suggestions for curricular reorientation in Britain for the over-16s; but it still made much of distinctions between "traditional" and "noutraditional" sixthformers which it finally confessed were part of a

Such distinctions are literassingly rubbed out, by changes overtoking all atudento over 16. Moreuver, twhat about that one-third of the enrolled population who in Britoin ore not in "oixth forms," at oil—or even in the "sixth forms of lease." or even in the "sixth form colleges" and tertiory collegeo which have increased from two in 1968 to about

Unsuitability of provision is nor ilmited to the secondary soctur, of course. Though young adults over 16 everywhere give "a good job" as their moin objective in staying on they almost invariably want to keep their options npen. Few who have the choice really like the tight pocking deals" of oo many vocational courses and establishments. On the Continent the vocational/

technical side of education and training is much more narrowly linked to quelifications (often obsolescent) than here.

The vocational/technical sector at this level is of greats importance in Europe then here and upheevals in it are therefore many and upheevals Il t ere therefore more momentous. In Italy, for exemple, over 40 par cent of the full time post-computsory enrolments are in this sector. The German Federal Republic not hes quite an array of spocialised Gymnasien with vocational linkage but also provides powerfully for vocational/technical education in full-time establishmento roughly parollel to these though not leading to the university.

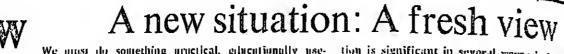
In eddition, all young Germans leeving school before the aga, of 18 muot continua in part-time vocational training until that ege.

selectiveness.

A fresh start may be offered by broeder curricular combinations, since few students so far ere both "erts" and "science", and fewer still combine these (et A level, for instance) with technology or commerce, or e ordey of the cootomporary political and occial life of this country and its pelebbours. Vet the contemporary to the country and its pelebbours. Somo hidden features ere importent for our diacussion. Though Continentol aecondary school systems often end at 19 od poper, most of them ectually have many studeote continuing after 20. That is especially true of collebishments with e job orientation; but evan the thoroughly selected German student teklog his Ablur in e Gymnasien averages 20.6 yearo of ege.

Meny of pur own further educotion colleges (if not most) enrol e fair number of students completing studies lote. Iu many instances these atudeots definitely do not wish to continue da before; they look for elternatives io curriculum or method.

atudeots definitely do not wish to continue as before; they look for elternatives to curriculum or method or leaching/learning relationships, or they look for links with life and carcers, or fresh combinations of oubjects (perticularly in England), or they have developed a new moti-* The reference is to Post-Compulsory Educa-tion I: A new analysis in Western Europe (1974) by E. J. King, C. H. Moor and J. A. Mundy; end Post-Compulsory Education II: The way sheed (1975) by the same euthors.



We must do something practical, educationally useful now, and justifiable in the lang term. Yet our resources are restricted and pressure is manufing. Although fewer than 15 per cent of Heirish pupils stayed beyond the age of 17 in the mid-1960s the manufacture of the control of the mid-1960s are in the mid-1960s. ber has roughly doubled by now if we count in all kinds of full-time education.

A few years ago our local education authorities esti-A few years ago our focal emerican autorities esti-mated that alread half the population would stay on full-time to the age of 18 by the early 1980s—too high on estimate? Yet when we had only 26 per cent doing so in 1970, Denmark already had over 12 per cent curolled at that age; The Netherlands had 42 per cent, France 45 per cent, Canada 77 per cent, Sweden 82 per cent, and Japan 90 per cent—all well beyond com-pulsory schooling. They have all mayed an since then;

But what sure of a problem? And what kind of eccommunication? When we scrutinize the figures closely we find striking indications for uniter. In England and Wales about one-third of the 16 to 19 eurolments are not of large and girls in school but of "men and women" in further education. That migra-

evidence

became urgent. Yet providers were still usually thinking of school—and pre-university school at that.

over-optimistic prophecies of massive expansion in higher education.
The early 1960s' dropout phenomenon among the able and well-placed was not heeded sufficiently.
The doubling and supprisons trade

The doubling and sometimes trebling of pusi-compulsory and even higher education curulments was accompanied by little market research among students or con-sumers of the learning ordered. A great shortage of intermediate skills. sub-graduate qualifications, and technician services was lamented; hat who was moved to hold cheely at the students' needs, activations, and mativation from inside the

school/college ? At least the students were. Student action committees in France (composed of people in schools of the type described above) published me type described above phonouring manifestos such as las lignens gordent la parale 11968), and las macs ant la parale 11968), which were spaken of with warm approval

were reconsidered by expects at Council of Europe conferences during the late 1960s, Perhaps the best theoretical prorview of the

of a 1972 conference of a 1972 conference General insight and policy indi-cators were selding single on the ground -in same mantites acrer, evalutionary experimentation! ocaso uning university teachers in the even front teachers. Illinois was an far the conspicuous baseaus, themselves. Thus the question of letter off; but the secondary of or. The bits and pieces lieus world—for people and for curears—

The bits and pieces lieus in regulations and but the picture is sill a public responsibility caused distinction.

Therefore, after preliminal phoration of the field and a initiation of working contact. Comparative Research Unit extablished with support from Social Science Research Cong King's College Landoo, to in gate over a three-year prival enheational and social implies a randily increasing follows: of rapidly increasing follow-rainments across the whole, compulsory rango between the of 16 and 20 in England asother Western European ou-

tion is significant in several ways; in its signation, indication of student preference, it inglests for future tenching and training patterns, and must of all in showing where opportunity a spread to develop interests and capacitis as

ulvantage.

markeilly.

If we use a familiar measure, roughly a quarter of the passes in recent years were chiral culleges of further cilication, and the passes higher coheration currents from them is grown, fully. Over 60 per cent of CNAA currelacular tendents for the colors of the passes cannot from a further education.

producte courses came from "further educator"

producte courses came from further education, year. That still tells us little about eardiness alternative, job-linked courses leading to OND, and the expanding "subgraduan" range. By no means all the envoluents in our anadage.

By no means of the enrolments in our non-by further education courses which we assume taken before the age of Pt really represent pagithal age our those drawing straight on from congli-

schooling. Other countries show this feature

compulsory education generally.

Yet to match institutions and courses to pa. expediency entails be a poor policy. There see indications to be drawn from a proper study of

> His attitude illustrateo one af the Details of the research; most important, if as yet perhaps least recognized, rosults of such gramme, its methods, and felsi discussions or experiment; here published in two volumes smuly-service schemes—the potential greatly to increase the pressure for forollary papers. They will fare, be maitted here; bechange in other, conventional parts of the curriculum. points seem specially important Two further important results of post compulsory policy—fix, potental principle, and low detailed combisions.

well-rin nulionul study-service schemes are being increosingly widely recognized. Firstly the obility to supply large quantities of deployable educated monpower to tackle urgent notional development tasks for example to health oducation, reforestation, literacy teaching, agricultural extension) and secondly the profound educational impact

THE TIMES HIGHER EDUCATION SUPPLEMENT 4.3.77

an idea whose

time has come

Diana Fussell and Andrew

Quarmby on the lessons of

need-oriented approaches

in Third World countries

"I am not satisfied with the curriculum at the noiversity. We are not taught about what is going on it our country. We are only taught about priocipies, must of which are irrelevant to our country. They may be relevant to developed countries. We have to learn how to uplift our country economically, but they do not teach us about these matters. When I go hack to the outrestity twill discuss this matter with my friends out we will make our suggestions to the university multipries."

The Asian university student who

said the above words was in the time serving in a remote village in his own country, beloing with a variety of practical rural develop-

ment activities, as a participant in his country's national study-service

to higher education

Study-service: Description of the state of t

newer supply.

underlying study-service.

grest significanco.

the profound educational import that the service experience can make on the students perticipating.

Study-service is the term used when a period of community service is made purt of the cucrienlam in an educational iostitution. Beginning in 1964, for example, it was counted a requirement for all students and a requirement for all students and a requirement for all students are all of the service schemes in industrial and second-captured with the pointing of study-service schemes in industrial and second-captured with the pointing of study-service schemes in industrial and second-captured with the pointing of study-service schemes in industrial and second-captured with the profit of the captured with the profit of the captured that there are five basic guided that there are five basic guided in a successful untional study service scheme in a developing committee of the profit of the pr onade a requirement for all students trinlled countries because of the enrolled at Ethiopia's only university to serve for a year in developsity to serve for a year in developmile environment). nient activities as part of the curri-culum (usually immediately before their finul year of ourvico) and the Ethiopian University Service (EUS)

was crented. In 1972 the Indonesian Government announced its intention to make at least six months of service in village-level devolopment work o part of the curriculum of ull unlversity students, and this sarvice requirement, given the name Kulioh Kerin Nputa (KKN) is being grodually intruduced (opproximately 5,000 students now participate each your) usually into the your before the final your of acodemic attidy.

In 1974, sorvice for the period of one acodemic year in villego-lovel development work, immediately beore the final year of acodemic study, bocame a raquired part of the curriculum of all students of tho degree lavel in Nepal, and the National Development Servico (NDS) was created.

If the EUS, KKN and the NDS are three good axemples of the principles of study-service in precitice, they ore by no means the only examples. In the United Stetes, the Teachor Corpo scheme is besad on study-service principles, and under the "University Year for ACTION" scheme, interesting still entered to have some chance of exhibition of actions and in indonesia decreasingly some other countries are moving in the same direction. The words of a Nepalose student, acryling in of white the NDS, aprily sum import no the student. A period of at least six months of continuous If the EUS, KKN and the NDS

The revolutions in education that have occurred as part of total palitical revolutions in countries such us the People's Republic of China and China can be come as different and the countries of the success.

Village development needs in success. Success.

Village development needs in su-many fields are closely interlinled Cube can be seen as different, and with each other, and cannot be suctain more comprehensive applicotiuns af some of the principles recognition of this (by the form ol assignments) is very importon in However it helps to keep these giving the students some chance of success in their villuge work, it is even more important that it is limity implanted in their minds by practical experience, so that they will remember him their subsequent careers—which in some cases may like as unional development. countries' programmes in perspec-tive if it is remembered that it is comparatively easy to create a revolution in education os port of a tutal political revolution. To create so drustic o chonge in education os the introduction of a year's studyas unional development planners.

The experience so fur uf such oeed speciolists to lackle thent. ploneering study-service schemes os the EUS, KKN and the NDS indi-Study-service participanto who have been assigned as specialists have often found themselves borotl and misuccessful. Finally-and this is where the

Nigerian, Ghanaian and similar schemes mlos their opportunity the service experience should be followed by at least one further year of academic study. This will allow what porticipants learn from the experience to be concolldated by discussion and further study of the higher education Institution. Even more important, it allows of feedback of the experience into the conventional ports of the course, and of the institution in general. This feedback helps andy-service in its most important role, namely unlessing the portant role.

In Indonesia and Nepal, somo students used to be oble to proceed quickly through their education—
to much of whose content wes foreign-dorlved and irrelevant to

resourcefulness.

These qualities have recely been encouraged in most students' previous education, and it is the awaken ening of them by the challenge of responding to the needs they are confronted with that is one of the ways to the snecoas of study-service.

This is continued and irrelevant to their careers to positions of influence and power, often making docisions with wide implications, while hordly knowing or inderstanding their own country outside the capital city.

This is continued.

dents may now earn academic cradit for a year's service with the Peace Corps or one of its domestic equivalents.

In Britain, while study-service has become relatively common for "Newson" children, it is still very rare for the goodemic streams, and perhaps even raror still in higher education (although what doos exist at this level has been enough to stimulate a book on the subject. Education and Social Action, edited by Dr Sittelsia Goodled, Imperial College's study-service pioneer.

In Nigeria and Glane, all university common for stimulate a book on the subject. Education and Social Action, edited by Dr Sittelsia Goodled, Imperial College's study-service pioneer.

In Nigeria and Glane, all university their campleting their academic studies. And other approaches to study-service are already in their carly stages in street, academic study-service are already in their countries, including pleaned, Study-service is cleerly on idea whose time hos come.

In the study service poincer.

In Nigeria and Glane, all university the proposition of the most lively and assigning students ono to a village for ot the most lively and sensing students one of a proposities to study-service are already in their carly stages in their carlendary for the proposition of helping pleaned, Study-service is cleerly on idea whose time hos come.

In the study service with the Peace Corps or ne uf its domestic equivalents and but the NDS was a bad thing, beceuse institution, and abid thing, beceuse of suddent minimum, and at least one wast study to work as sudents going to the villages in study to the villages of morey and it by conditions and the wild the control to experiment.

Thirdly, conditions should be waste of one year, it would be a waste of one year, but it would be a waste of one year, but it would be a waste of one year, but it would be the waste of one year, but it would be the waste of one year, but it would be the waste of one year, but it would be the waste of one year, but it would be the waste of one year, but it would be

A university student in Indonesio helps villagers to make o water-wheel

servico requirement in a mon-revolutionory society has its own Also, mony village development needs that are very urgent are comparatively simile, and do not

The first principle is that the work to be done by the participonts
must be real work, that can be
clearly seen by them as needing to
be done—"make-work" assignments be none—"make-week " assignments will be quickly seen through with very negative effects. The work should be challenging; it should extend the student os fully as nossible in meeting the chollenge, but it should not be so challenging us tu completely assembled in a completely assembled. unlocking the rigid potterns that hold so much of existing higher education in their grip in o wey that enables o wido ranga of different needed changes to begin to

completely overwhelm the student The dangers of the lotter con be guarded against by making sure that guidance and support are available to the student to be called on whan needed, in other words they about not bo so dominant in the situation as to remove from the student the need for initiativo, self-reliance and

dents may now corn ocademic credit at Icasi six months of continuous the NDS was a bad thing, because for a year's scrylce with the Peace full-time service seems to be the

The University of Kent recently versity would lack the idea, initially decided to chose its law clinic; at at considerable cost, in the hope the same time the faculty of social that the high cost would be reduced sciences asked the anew scheme to by the attraction of outside funds, by the attraction of outside funds, and by the receipt of legal nid lees.

A. W. B. Simpson describes why a "law centre" may be

more appropriate than a "law clinic" at Kent University

he produced whereby the programme of clinical legal education. The clinic has achieved welcome has pioneered at Kent by Mr Adrian Taylor, could be continued. The modest support from one trust, and the university has recovered nothing new scheme has now been published from legal aid monies or after fees

clinic, me innovation in English legol colucation, can easily be portrayed as an act of academic infanticide; it has even heen publicly suggested that the fuculty loard and Senute trock the decision on the wholly the reputable ground that the law clinic must obtain permission from the nicset the local establishment. It did, but the reasons which led the power in the matter to breok certain professional practice rules. new start was necessary are more

Clinical that his standard the notion that have intimote contact with the practice of the law. In a sense there is nothing new in this; what is however innovatory is the incorporation of this contact into a university law course.

The not all—students, when the Kenn law clinic opened, that the necessary walvers would be granted. They have not been, and it has become clear that the low clinic, as of present constituted and operated, will never obtain them.

which no abstract study can gener-ore, and the general enlivening of teuching nitd research cun be dramaic. Furthermore, the type of pracesis both of teachers and taught away front the hallowed and, in many ways, archaic traditions of English legal education into more exciting and, arguably, more import-

Translating the idea into practice involves, however, some serious difficulties, and the University of Kent may, I hope, be forgiven if its initial essay in a new type of educational ectivity was not adequate to cope

Operating a progremme of clinical by the students of clinical legal education in a university law course involves a number of problems, and three are of predominant importance. The first is the problem of fitting the students' clinical experience into the troditional struc-ture of a degree progrumme.

The second is the problem of financing what is inevitably an extremely expensive farm of educuion. The third is the problem of operating a luw centre, clinic (coll it what you will) which can provide the educational services required without folling foul of the rules governing the profossional procilce of the law. The second and third problems are related.

The first problem has not yet been solved. Cortain activities associated with the low clinic—the organization of traditional moots ond vacotion placements—present no greet difficulty. The work done cuoas does.

At one extreme it ranks as extra-At one extreme it ranks as extra-curricular; at the other it is some-how to be organized into a course which counts towards e degrae rasult, and has therefore to be exa-mined as assessed. No set lefactory solution to this koa yet emerged.

The luw clinic has recently produced a scheme for a new clinical velon. It is of course in the cducation to course, but no such course has high carlonal and research potential that erto been run of Kent, and it is not the faculty is intarested and cun-

Skirting the pitfalls in 'practical' law education

Neither hape has been sailslied. trom legal and montes or after rees lished, and to the next few months decisions will need to be taken as in its acceptability both inside and outside the university.

The decision to close the law

must obtain permission from the Law Suciety (which enjoys statutory

The waiver of these rines, waiver of the rines,

that a large som of money has been earned by die clinic's solicitor, which he can neither use himself (since he is mid by salary and did not earn the fees on his own ac-count) nor transfer to the university, since this would be an act of professional misconduct.

The failure to obtain the vital

wairers is a complex story, but it stems partly from the unsonisfactory siems partly from the this offsteroly managenest sucture of the law clinle, portly from the nature of its prucific, which is not occeptible to the Low Society, partly from Law Society suspicion of the implications of allowing a university to receive money from the legal ald fund, and partly from the failure of the clinic to establish a happy and cooperative relationship with the practising legal profession.

In porticular the existing arrangements are not acceptable because

In porticular the existing arrongements are not acceptable because the law clinic, being a university body, is not independent of the londing agancy. Upon this independence the Law Society, in my view rightly, insists.

Nothing better illustrates this than the protests over its closure, ottributed by critics to malign motives by the funding and controlling appared, the university. Unless

ing agancy, the university. Unless independence is entrenched by o sultable constitution the funding agancy is blamed for whot is or is not done, and the centre. Itself is never seen to be free from sinister influence. influence.

The solution proposed is to make

a new start by setting up an inde-pendantly managed community law pendantly managed community law centre, run by a compony limited by guaranteo, and arranging for the university to contract with it to provide the required educational and research facilities.

There lo e reosonable prospect that this scheme will ovoid the pitfalls which have led to the closing of the law clinic, but enable clinical legal education to continue and de-

The author is deen of the fucidity of social sciences at Kent

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PUNKS TRAINING

voring. In a mutshell, they want "c

So we ore far from looking only at education from 16 to 19, or sixth-form colleges or a terriory college parallel to them. We are thinking of a much broader spectrum of post-compulsory education us o whole, offering systematic pro-vision et obout the level of sixth form end lower tertinry courses, but for a much larger population with a wider ronge of neodo and cver-changing coreer perspectives— end with links belwoed all of those and the further prospect of self-

Alternotive educators and "re-turnors" of every kind are key figures in this ennecut. Competence ta continue leurning, and to re-adjust responsibly in a continuom of subsequent decisions, ore inher-om requirements in this first phase of adult oducution for all over 16.

In that cense "post-computacy In that cense "post-computably education" is beginning to be widely understood—o concept with as clear e menning as, say, "further education" or "higher education" have hitherto had. The new concept is full of implications for empulsory school, for any "higher" or "further" education which may follow it, and for the prepuration of teachers and muterial to serve it.

pean countries investigated because of curricular

Partial understanding that a new educational phenomenan was energ-ing is revealed by booking at those documents since about 1960 which facused attention on increasing enrulments, on making it cusic for newcomers to keen up, on supplementing deficiencies (in them), in coping with the intake from the comprehensive schools to age 16 or sa which were being adupted as universal policy in Sweden, France, soma German Lünder, and else-

At first the whole emploses was on fitting a "new population" into an old framework while sumelow odjusting its houndaries in the shape of examinations leading to universitles or careers, or admission procedures at the receiving end, or hursaries and other encouragements fur under-represented elements. Su the educational problem was seen us a structural me, with some implications for "management".

The next stage was seen (by the mid-1960s) as one of concentrating on the educational needs of the 16-19 age-graup—including the "new-comers", but not only with reference to them. It was becoming clear that part of the increase was crused simply by sisters or country cousins of thuse enrolled before, who wore now staying on longer.
Were they really "new", or would they fit the scheme as helpre? In

any case, migrants from hitherto unrepresented socia-economic backgrounds did not know enough to ask unsty questions about the "system". Then where did discontent and misfits come from? Ofton from the nble and well-tn-do, un the Con-thieut, in the top clusses of school or the pre-higher colocation limbo represented by the French classes

preparatoires. It was here that the German disurhances of 1967 and the French "events" of 1968 broke out—after ropented grantblings ht the some censo umning university tenchers

Exploring

The situation was not helped by

by educational experts.

Psychological and sociological aspects of the 16-16-19 strengton. rhanging situation was offered by James and Geneinard's The educational newly of the In-19 ogggroup, published only in 1973 as a result of a 1972 conference.

General insight and pulsey intil and experimentation.

The general principle he couplified investigation of reeducational needs and oppor for the average young adult is The experiencial diorensia: sented by those engaged in process is the most everloold:

he most revealing aspect of the this level of education, in particular circumetances, all andents acc or important respects, or open ently madichost est The "harith shew available

a well perpoted investigation that the people on the growt. their local or copied or say and experimentation & uffers multiple opportunities

What kind of diploma? Our own of French transpear DF13; diploma, and transpear transpear diploma and transpear transpear the safety different ways exemplify across the safety need felt for interim subgraduate autisticient for new, sometimes very planspear for new, sometimes very planspear the options upon for large details.

lie open, but one thing is clear-man prescription. A new style of "commonty college the

nously by the fresh insight we require a new recognition: the test level of post compolitory estaction in diploma is really a take-up roll adults and many needs. It is a feature experiment, research, and reappeals.

The recognition of past-compulsors addition 16 to diploma level " is a challenged to compulsory school provision, to higher that's traditions, to relationships between lng and work, and (above \$1) to the providing teachers for the young addits over 16.

The great ewakoning of young edults is shuwn in widespread craving for new windows on worlda of education (and training and communication) beyond previous scholastic experience, somatime boyond institutional or curricular possibility in oarlier times. Within tha framawork of axiating provious, students show themselves alort to shifts in that hierarchy of subjects and thair grouping. They are deeply concerned with fields of knowledge end experience imperfectly provided for. Questions of a "fresh atart" are raised at all young adult levels in all countries like oura, and more so in Britain than in the other European countries investigated because of curricular selections. Completing the picture

education—eesthotic, emotional und suciul ner-hapa. Something much moro parsonal, and a ntuch more integrated service than any super-morket is obviously needed.

Besides, we can discern three main groups of students at least; those more studiets on the

periods eway from an educational environment. The elements for ony ootisfactory policy

clearly include:

on the institutional level—providing for flexibility, life-links, reorientation, more en-

nexibility, intermiss, reorientation, more encouraging eatry and re-entry;
re-slyled curricular and tooching, learning
arrengements in en adult idiom, cooperative
"madogement" and development of work, and
contact with alternative educators or learning oossibilitles;

possibilities;

counselling and guldence—that just personally ar locally, but in a national and later netional perquective.

There are, of course, establishments possessing some or several of these qualities—individually. To make real sence of everything we need to recognize our partnership in widespread recunsideration of the whole zone between the aud specialization in higher aducation are cereer tomorrow's specialization.

ng. norrow's specializations ere not all known. Others will change internally in knowledge and

shill—and still more in the human related they cut all. Updating, job changes, make helated burerst, shifts in maketon to make and re-learning at a level describable at the to diploma.

What kind of dishand? Our own Dight?

What sort of college, then? Swerd

available now seems must likely to small evolutionary purpose. To make it fully design

Sixth form and tectiary colleges, and serimental parts of the colleges and serimental perinental parts of further educations; speak of experiments on the confliction "second-thoughts" proviolon in hearift (1) countries like the USA—represent strength and recipiling in parts of the Parts of t

The author is projester of education a fall

West Germany



Stage set for key ruling on 'positivé bias'

As the cruciol case alleging reverse discrimination by the University of Californie slewly approaches the United Stotes Supreme Court, advocates of greater minerity enrolment in universities are getting more and these, about 60 are now minerity enrolled.

believe that if the California court decision banning preferential admisdecisien banning preferential admission of minerity students at the medical school on the Devis campus is allowed to stand, there will soon be virtually ne black or Chicano students in all California's professional schools.

sional schools.
Dr Richard Lymnu, President of Stanford University, hes said that Stanford University, hes said that Stanford may go to ceurt te give supporting testimony for the University of Californie. Dr Lymon said if the Supremo Court decided in favour of Alian Bakke, the white student alleging discrimination, it would put everyenc "in deep trouble". Dr Lyman is chairman of a cemmittee of the Association of American University Professors which is working out programmes to help milority students et gradu
to help milority students et gradu
students are nil well qualified, but their grades ure ant up to the very competitive levels of regular udmissions.

Berkeley is typical of other investions in the professors which is working out programmes to help milority students et gradu
schools; and so u survey has just been made for a special committee.

ate level.

At the same tions a number of organizations usually intentified with civil, rights have urged the Supreme Court not to consider the Bakko case. They include the Netional Urban League, the United Automobile. Workers, and the

Netlonal Urban League, the United Automobile Workers and the National Ocganizotlon for Women. Thay ore effect the Supreme Court, which has been noticeably more conservative in its judgements involving race and civil rights in recent yaers, will upfuld the Celifornio court's decisien. This would beve the effect of stopping all universities in the country from running special programmes to inrunning special programmes to in-creaso the admission of minerity students. These organizations would prefer that such a judgement was limited to Califernia, as it would be if the Supreme Court did not hear

the case.

Withlo thot state, however, the effect weuld be serious. Last week the deans of Califurnie's feur publicly supported law schepls—t the ruling would not occessarily affect private universities)—drew up a everages were cemparable. The brief to show what would happen question is what do you do in the to minority edmissions. They chose interim?

more nervous.

Deans of line schools in Celifernia odmissions programme. Every one bolieve that if the Califernia court of the 60 would have been unimited

increase in competition in get into oil professional schools. In 1960, for example, the Berkeley law school had 708 applicants. Anyone with a "B" overage in college could get in. Now there are about 3.500 applicants a year and the 3,500 applicants a year, and the nverage scores of this admitted hove gone up sharply. The infinity students are nil well qualified, but

schools; and so u survey has just been made for a special committee of the Association of American Law Scheels te see whot would happen if the Bakke decision were upheld throughout the country.

Last year the 160 appraved law schools in Americo had 8,703 minur-ity students. The deans were asked how many such students they would have if they were not ullowed to use roce as a sperial criterion in admissions. About half the tleans responded, and they said the figure would be unly one or two per school—the same sharp drop furecast in California.

Dr Ernest Gelhorn, chulman of the association cemnittee and Dean

The llay Area project works through a series of intensive writ-ing "clinics" held on the Herkoley Dr Ernest Gelliorn, chulman of the association cemmittee and Dean of the Arlzane Stote University law school, said lawyers performed a significant leadership role in society, and it was important therefore that the profession was racially livurse. It would be surprising if inhority a students did es woll es ethers on a standardized tests in view of years of discrimination and lack of educe, cational opportunity, he said. It would take some time before grade everages were cemparable. The project, run by the University School of Education, also provides year-long staff development services to standardized tests in view of years of discrimination and lack of educe, cational opportunity, he said. It would take some time before grade everages were cemparable. The discrimination of the project of than 1,000 teuchers have taken part in training sessions, and their new opproaches here benefited mere than 100,000 pupils. Within two years the pregromme will be reaching an estimated 500,000 pupils.

A rendem sample of 184 students selected from Berkeley freshmen entering from the meth high schools in the Bay Area found thet 24 per ecnt fewer school lenvors from project echools had te take remedial writing classes, than those from other schools. A more detailed evaluation is now being conducted.

Three institutions link up to provide joint courses

Three leading universities in New York City ere to begin en expection ment offering a joint graduate programment which would allow atmostic to take courses at the rights to take courses at the right who are good the right wh

First growth halt in 25 years

For the first time since 1951 the number of students in American post-secondary chloration agrees an info only 0.1 per cent, and two-year continuous students in American post-secondary chloration agrees any parts have been the fastest growing section of American higher chical manbers. For use section of American higher chical in section of American higher chical in student manbers was the steep decline in veteron students. The third fact and theological schools for the fall in student manbers was the steep decline in veteron students. The third fact and theological schools for the fall in student manbers was the steep decline in veteron students. The third fact and theological schools for the fall in student manbers was the steep decline in veteron students. The third fact and theological schools for the fall in student manbers was the steep decline in veteron students, thus third per cent, Dr Purker factor for the fall in student manbers was the steep decline in veteron students. The third per cent, Dr Purker factor for the fall in student manbers was the steep decline in veteron students, thus third per cent, Dr Purker factor factor factor for the fall in student manbers was the steep decline in veteron students. The third per cent, Dr Purker factor fact

The total number of students in America's J.074 culleges and oni-versities (excluding five that bave and yet reported figures) this year is 11,215,111 compared to the final total hast year of 11,296,719. The end in 25 years' imbroken expansion compass improblements a year. immediately after a year when enrolment unexpectedly jumped 9.4 per cent, the biggest single rise for a decude.

Washington

writing scheme

welcomes

---with totals dropping from 1,101,135 to 726,578.

who had served in the armed to ers. This drop also partly explains why the total number of men to higher education went down whereas the number of wanten rase.

single rise for a decoile.

Within the overall mad this year, however, there have been same significant changes. The number of women students went up 3.4 per cent, while the number of men went down 4.0 per cent. Private colleges and universities showed a ground that any rise in enrolment this year small productive cont. Carlam Parker, director of curchment policy and enhantment the resourch of the decline in freshment went up 5% continuational meaning and enhantment this year small productive cent. The decline in freshment went up 5% continuational meaning arms and enhantment this year small productive cent. The decline in freshment went up 6% cent, while public institutions lust 1.1 per cent.

Universities suffered the groutest less of students with a decline of 1.0 per cent.

A later survey by the Parker last of 7.9 per cent. Altogether 6 are now 211,266 students by the four-year institutions showed a drop of the continuation of the interest last of the most four-year institutions showed a drop of the very small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct in their in first year students, the four-distinct and the very small productive real in first year students, the four-distinct in the continuation of curchment this year small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct and the very small productive real in first year students, the four-distinct and the

Campuses criticize 'students must pay more' proposals

New Jersey's public colleges and miversities are in upman over a report to be published soon which suggests moving away from diversals support of lustitudous towards financing post-secundary education through students' fees.

The sheaf range was fined as compete in the market by grant a sheaf range was fined to the more than the more building that we compete in the market by grant to the more building that we compete in the more building that we can be more building that the can be called the can be more building that the can be called the can be competed to the can be called the can be competed to the can be can be competed to the can be competed to the can be can be can be competed to the can be ca

by a university in improve the standard of writing in nearby schools has been so successful that it has been given almost half a million dellars by the government through students' fees.
The draft report was fictedly criticized at verent public hearings.
Rutgers, the State University of New Jersey, is now leading a campaign The Bay Area Writing Project, started four years agn by the University of California in Berkeley, Jersey, is now leading a campaign in stup the recommendations being adopted. The require could become a major issue in next year's campaign for the statu's governorship.

A commission under Mc Edward Bunker was asked in 1974 to look at university tunion levels and the new Now because history saluration. is to set up eight new writing cenot loost six others in other states. A prollminury sindy recently fund that the scores of publis taking college entrance writing tests in schmids taking part in the project were significantly higher than those for pupils in other schools.

The new National Embayment way New Jersee's higher relucation system was financed. The resue was pardicularly acute as New Jersey revenues depend heavile on property tax. Pum families there The new National Embryment for the Humanitles grunt will be supplemented with maney from the Culifornia Department of Educa bre camalbute a large amount to the running of state funded colleges and unleersities which are attended generally by mobile-class students

whit do not pay the full economic cost of their education Mr flooling suid the state should Mr flusher suid the state should traduce its direct support of public universities from 70 per yent to the per cent. The extra of oney should be used for an expanded and ofter field state unition fund, which is odd pay grunts to all students according to their family income. Universities would have in make up their bases would have in make up their back revenue by charging higher tuition fees, but suidents would have more

money to pay the fees.

If fully funded the place would require \$69.9m more in state support for higher checamon and increase of 23 par cent on the present budget.

my the merchandise that here wish to purchase in higher &

tine area that showed a ti

cant drap in fredmen end

was the group of historically collectors. In the four-year problemes, there was a dop of

her cent in the unmber of the colleges, which fored much be

Illack trep-year communic

This would feel to deter-"page" religation, and to "de-ing uniformity and medicange Rutter e.

Due of the countission's aim to reduce the differential be-public and private union which are mogally twice at a site. Increased grants to no would make private efacaless attractive to students from River families.

So far, lunerer, fee ping. so i.r., finkerer, for productive supported inducted supportions published them, supported them, the President of Falk Diskinson such the resident wide that private institutions would think by furease their engines, order to get the extra funds see, free would bring to.

free would bring in.

Given the general hostily to has greeted the draft it is abundaful whether the finding will be accepted by the second linear of ligher Foundation, we have a mander of representation to four public universities.

The Covernar of New Jeris sant consideration of the repor-ture to wait notil after the sleet this autumn. Meanstile, let given an andertaking the Best fee, will mer he meteastd in

Briton gets top Cornell post

A British-born geologist is to be the

ded to other supports
those with fellerly smell enrollments
and high overhead coats.

The venture is a significant step
to retionedizing radiato aducation.
The threa universides as a list as a
means of ending duploalin, expending the renge of supporting the property commisside of the transport of the transport of the support of th

Love of learning

The lumefits of free tulis relatives of oniversity teacher next president of Council Union and lost on one control sity. He is Dr Frank Rhudes, 50. Soar student at linkert Collins and Linkert Collins and State of St The experiment will begin this along with many others, the there is too much overlep in gradueta education. Scheel pupils who are good of columbio and New York, end et the public City University of New York. Sterting with the Germon department appeinted on department, and dead to other subjects, especially those with felry smell enrollments and high overheed coats.

The venture is a significant step to rectionelizing graduate aducation. The threa universities sea it see a means of ending duplication, examines of ending duplication examines of examines of ending duplication examines of

the Federal Republic's Constitutional Republic's Constitutional Court has once more intervened decisively in the country's most pressing higher education issue, linw to regulate university access tTHES February 25).

The court last menth strongly reaffirmed its fundamental 1972. Abittor marks and "waiting time".

The did no because the definition in be uncentively described—in the rejected—in marks, interviews and the results all practicals, "might be overcome". From the court's general attitude in seculed that it would consider a modified weighted lattery system the foirest of the suggested special and the foirest of the suggested special and the foirest of the suggested special that the foirest of the foirest of the foirest of the suggested special that the foirest of the f It did so because even a very gond Abitur mark does not cor

AMSTERDAM

ruling that every qualified gremmar school leaver has the right of access in higher education. And it again stressed the obligation of Lönder rently guarantee a place at a medi-cal school. And rejected appligovernments and universities to make the fullest use of existing than seven years for admission. student capacity.

It argoed that they had still not fulfilled their constitutional obligation in this respect and suggested that special emergency measures any detail the new types of special selection procedure envisaged in the General Francework Law, Yet, sound-

such as the odolitiance of an ore excess of students for a limited that the reservations about one such method, the special court did not rule any selection government intends to develop and

will mean

tighter pay

from Lynn George

Holland **Budget cuts**

'Anti-political' revolt hits left hardest

The court did not exacting in

Entry chaos: new legal moves

from Patricia Chrigh

AMSTERDAM
Despite fierce protests within university bierarchies, parkiament has adopted this year's university budget proposals which alm to vigorously cut down speuding. The universities have to centribute a reenrd 2123m guilders (about £48m)—nearly half of the 453m guilders saving on this year's 18 milliard guilders educational budget. This srill leaves them with a 27 per cent share of the educational funds, however, and places them second (next to secondary education) on the prinrities list. ROME ltuly's politicians were this week slowly digesting the implications of the student revolt still siminaring in the universities. The precess was painful fer all parties, but porticularly so fur the Communists and the

rade unions.

The main fued fur thought was provided by the riots when Signer Luciano Lano, Cemmunist trade union feader, went into Rome University to address in address the students. As a result of the riets the university was closed until urther notice.

(next to secondary education) on the prinrities list.

Purticularly affected by the cuts will be investment (48m guilders), persuance costs (48m), running costs (15m) and university research (12m). Specific steps will be taken to tighten up university selaries. These include a lower starting scole for young fecturers, and no outematic salary promuntion for professors to the bightest puy bracket (at present 9.283 enilders a month). Signor Luma was pnyling the price for the Communists and moions' earlier treatment of the student revolt. The pacty ingen L'Unital lind repeatedly aroused student anger by playing down the events and condenining the pentesters of hunligans and thugs. The decision to have Signar Lanta address the condening the period of the latter was made in the releis of the latter was made in the releis of the latter was made in the releis of in three Signar Land andress that structure is a situation where the Communists end microists felt they should rightfully be in the bighest puy brucket (at present 9,283 guilders a mouth).

Shurper cantrul on jeb promution will also take place. Vecant choirs, for instance, will first he roevalumed for their "worthhuess" before being refilled. The pensionable age for professors and lecturers will be dropped from 70 to 65.

A further 415 extra posts are to be creared this year, but ony further staff expansion has been puse poned until at least 1983. The feeling within the universities is thet such cuts will place the new four-

It therefore came as a shock when he was greeted with slegans such as "Chile has tanks, Italy has the trede milans". It is clear that meny students naw consider the Communists as part of the ruling establish-

The Communists, however, cen-net entirely be blemed for foiling to understand developments which had taken averyone by surprise Despite the entword similarity—uni versites eccupied, demonstrations and incidents—the current revolt is quite different frem 1968.

The demunds then were for a

democratic university system and sncial justice weathy of a modern, afficient seciety. New there is the economic crists, a large proportion of students fuce intempleyment, pre-



the most active gamps are anti-pulltical. They reject parties, pull-iles, unions, discussions and institu-tions. Much of their protest is on the intellectual level of o British It is understandable that the poli-ical parties have difficulty in taking seriously groups whose slogans include such unincuse as "drome-dory power", "fewer hollduys, more exploitetian" ur "we are realists, we want the impossible".

we want the impossible."

The senseless slagons, however, ere occompended by senseless violence. Only a couple of weeks ago some sludents were engaged in a shooting incident with pelice. Others have raided shops, smeshing windows with iron bars and making off with the centents, or ferced cinemas to edmit them at a fraction of the proper prices. In the past two weeks £300,000 worth of damage has been done at Rune University.

The university crisis is com-pounded by onrest among the sreff, perticularly the mony thousands ef assistants who do much ef the werk ef the prefessers with no security and, until the gevernment gets reund to producing university relorms, little prospect of advance

A centre of Mediterreeean and Arab Studies is to be established on the island of Rhodes. The centre will come under the Panteius Graduate School of Political Studies of Athens.

Courses will be for ona year and schelurships will be evoluble. Greek and Arabic will be taught.

Courses will be taug

Mike Duckenfield, recently in Copenhagen, reports on the salary outlook for Denmark's academics

Real earnings 'may fall up to 10% in two years'

Librater quotes (consisting of one-third of a Land share in the tutel number of applicants for a subjecand of two-thirds based on its share of the total population aged 19 to under 21) as an additional selection erherion in the general selection procedure did not violate the speci-fic hasic rights provisions in the and private serms, acodemics' salaries have been losing graund for Busic Law. Indeed, in its view such quotas

ace prefecable in joint efforts by the Ministers of Education to standurdize the Ahitur exeminations threughout the Federal Republic

The court forther rated that

Accerding in calculations by AC efficials, who accuse successive gavernments both on the right and left ef simply Ignoring the relorm, in-comes of publicly employed senior

> public sector gained on average 19 per cent rise, while male wurkers in private industry galacd a 29 per cent lucrease. More impurimily, incesses fer privotely-empleyed salarical staff rese 26 per cent.
>
> New, in the period 1975-1979, the New, in the period 1975-1979, the union estimates that professors, of whem there ere 630 corning nu average 203,000 Dkr (£19,900) e year, will suffer a 10 per cent drout in reul incomes. Their salories weald riso about 14 per cent to £22,700 compared with the 25.9 per cent increase in prices ferecast by the government.

government. Real' salaries of lecturers are expected to drep by 6-7 per cent and those of assistant lecturers by about 3 per cent. Wuges of privately-employed industrial werkers will

employed industrial werkers will rise by about 7 per cent.

At present, about 3,500 university lecturers (lektors) each an everage 155,001. Dkr (£15,200) a year including a substantial minimum of uverlime, mainly for evening class tultion. The current 11-grode scalo for lektors actually starts et £9,225 and rises to £13,300. AC estimates their avouge lotel earnings by 1979 will be £17,650—16 per cent higher.

Over 2,000 teachers with lektor or the somewhet lower adjustkt status also work in ecodemic upper secondary schouls. Taken together they earn on average of 122,000 Dkr (£11,950) a year excluding evertime. This is expected to rise obnut 6 per cent in £14,260 over the four years.

One of the oralin reasons for the long-term effect ef the decision by the Social Hentecrals soun olter they ceme to power in 1975 te revise

A ginning pay prospect for university teachers, with real salaries decreasing as fouch as 10 per cent by 1979, is predicted by the national professional workers' union, Akademikernes. Centralinganisation (AC), following recent government policies to aid the inver paid.

Hespite a reform id 1969 by the their ruling condition of Radicals, Liherals and Consecvatives, extablishing the principle of pay unrity for similar jobs within the public and private serms, neodemics' salaries have been losing ground for

payments the same regardless

List August, the government, despite apposition from the two largest opposition parties—the Liberals and the extreme Right Procomes of publicly employed sentor substited tworkers, including university staff, increused in real terms by 10-11 per cent between 1969 and 1975.

Other groups, however, managed to keep for noire officed of rising prices. Unskilled workers in the public sector gained at average 19

complete wages and prices freeze— the 6 per cent in reality is to com-prise a general 2 per cent increase and two new-style threshold

A further aid in the lower paid oud these in the private sector is that they, unlike acudomics, will be

Densk Magisterforeningen, which represents graduates in tenditional acodemic subjects such as the erts, humanities humanitles and natural sciences

Junior overseas staff face big work load increase

Jobs shortage fails to halt flow of students

Its moln employment, and the present comments are graduates in 1977 compared with ebour 23,000 in 1976. At least 3,000 in 1976, the least 1977 employment.

The rector of combets come of a gainst 2,660 last year.

The rector of combets are seen of graduates. The rector of combets are seen of graduates. The rector of combets are seen of graduates. The rector of combets are graduated correctly and graduates. The Graduate Correctly are graduates. The Graduate Correctly are graduates. The Graduate Correctly are graduates in 1977 as graduates. The Graduate Correctly are graduates are graduated to the rector of combets are graduated as the present commissions of university and starts, which is a major inquiry is heeded by Professor Council estimates finit unemployment among graduates. The Graduate Correctly about the male and graduates. The Graduate Correctly about the male and graduates are graduated to the combets will be a served as the job prospects for graduates. The Graduate Correctly about the male and graduates are graduated to the control and the present commissions of university in the graduate correctly and a start professor council estimates finit unemployment among graduates are finit unemployment among graduates are finit unemployment and graduate and the present commissions of university in the present commission of university and present control present commission of university and present control present cont

Liniversity lecteurs, will now be expected to teach 12 class contect ber et class contact hours, this is likely to have a drematic effect. Not only does it meet e decrease the average was between eight and in the amount of "overtime", it

soch cuts will place the new four-year shortened courses planued for 1978 in jeopardy as well as making it even more difficult to care with

the rapidly increasing student intake.

A Centre of Mediterrosean and Arab Studies is to be established on the island of Rhodes. The centre will come under the Panteius Graduate School of Political Studies

ATHENS

Mediterranean centre

rom Guy Neave

PARIS

New conditions of service for lecteurs and fereign longuage assistents are foreseen in a report by the office Notionale des Universes to teach sites. Among the most eignificant is an increase in the weakly work load.

The results is a foreseed in the weakly work load.

The results is a foreseed in the weakly work load.

The results is a foreseed in the weakly work load.

Counted with the vice in the name.



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Money, money, money

little to part one which was pul-lished at the end of January and contained only the global totals for lished at the end of January and command only the global totals for whole sectors—and that only up to 150 of spending intentions expressed pages compared to only 22 but in an important respect this profession of details may even be misleading.

Pairs one was at least a post-IMF look into account the consequences of Mr Healey's new restrictions an public expenditure announced on December 15.

This explains why the period is covered was so brief 1 to scente the loan the Gorernment was obliged to give undertakings about the level system which seemed four or five poors are a most important and o of public expenditure up to 1978-79
but not beyond) and also why it was so skerely (clearly usity of the detailed enemging plans that White-

As a result part two of the White Paper is particularly difficult to interpret. The planned expenditure on higher and further education resembles a aucer—a dip down from this year's total of £1,875 (excluding capital spending) to £1,877 or year year and then up the other. 'kide' to '£1,877m. lo. '1978-79, £1,920m in 1979-80 and £1,994m in 1980-81.

But whether this effect is mirrage produced by the inability and made more public. Secondly, in and made more public.

But whether this effect is a mirage produced by the inability of the PESC (Public Expenditure Survey Committee) system to keep op with the latest crisis, or whether it is a genuine reffection of the op with the latest crisis, or whether it is a genuine reffection of the Comptroller and Auditor Government's intentions for higher and further education, who can spend public money—whether facal authorities or milversities—to spend public noney—whether facal authorities or milversities—to spend it more effectively by encouraging with a great deal of caution, particularly perlangs the one for 1980-81. On the other hand Mrs Williams, and other members of the Government, havo made it cloar by their actions that they expect the pressure on resources to have eased considerably by the end of

Part two of the politic expenditure the decide. If it is any consulation White Paper which gives details of planned expenditure on individual programmes up to 1980-81-adds very little to part one which was public expenditure in the long hand.

of spending intentions expressed in volume terms (that is, constant prices) to cash limits. This conver-sion can obviously be a source of Part one was at least a post-IMF loon document. It note into account the consequences of Mr Healey's new restrictions on public expenditure with pay policy and broader the consequence of Mr Healey's new restrictions on public expenditure.

was so skerely (clearly usny or the detailed spending plans that White version can lead to so improve a full worked on patiently through the worked on patiently through the lead to so improve a full through through the lead to so improve a full through through the lead to so improve a full through throu

Part tive, on the other name, appears in many places to be s pre-IMF loan document. The White cuts by sleight of hand. But, much liner makes this clear: "Figures in the lorer survey years are in breeds uncertainty and uncertainty in the groundst source of waste. If ously this could be used by an unscripulous Gurernment to make cuts by sleight of hand. But, much for the loter survey years are in uny case increasingly provisional, but on this occasion those for the two final years are particularly so in that they do not take account of the developments which led in the Chuncellor of the Exchequer's statement on December 15."

breeds increasingly and uncertainty and uncertainty in during the for sure for sure how much money would be available for advanced further education and teacher education in the next five years, and if the quinquentium was restored to the universities, who can doubt that a considerable inverse. As a result part two of the White doubt that a considerable improve-

and made more public. Secondly, in police spending more effectively it should improve and extend its own inquisitorial agencies for the model

Var by the de Complex of Portion Complex of Portion

LETTERS TO THE EDITOR

Relevance and industry

Sit.—1 result our vice-diancellar for the formal of the vice in the hong-term persuate in the hong-term persuate income "telles, February 18] with some incose. The exhactancy nature of the title reminiscent of Chairman Man's Linte Red Hook.

Indeed at institution that solution and the content of the conte some mease. The exhibitancy nature of the title reminiscent of Chairman Man's Little Red Hook and the (surely satisfied?) Blustra-tion of the ideal graduate that arranganied the article left me wondering how seriously it had been aken by its editors.

something very important, the crux of which is possibly contained in the phrases "it is most important that reaching sustains the strengths of our industrial contoury" and
"we shall see more teaching
activities in higher education conducted with industry".

Now agreed that the orticle was specifically about the relationship between higher education and industry, but to discuss this relationship without sounding at least some warnings is rather like following he instructions of a Christian Scientist on apen-heart surgery: there may be some doubt about your conclusions and survival.

Education cannot be solely concerned with the perpetuation of the current suchal ethos which may not he based on reality. Even If It is now it may not be in the future. Will it always be true "that manus facturing Ingically enriches the people of Britain "? The uncrhicul acceptance of this argument leads

Sir,-Your reference to the Council

The poper was uriginally prepared for council's commutee for educa-tion as a survey of the considerable

BEd's future

Sig-1 read our vice-chancellor Dr. to the building of H-bombs because

may come to resemble Concorde informally expensive to run, profitless in social or any terros, concerned with uniward appearances more than inherem utility, going But of course Dr Chilver is soying places for the sake of going and complete your impression the cruy

warn; in particular warn against the simplified submuscious as comptions inherent in views of Dr Chilver and his like-minded colleagues Yuurs faithfully, ORMOND SIMPSON,

Lecturer in mathematics and thermodynamics, National Pollege of Agriculture,

PEd courses. This is what the guidelines said should bappen. Thus the quitation of certain for National Academic Awards' ap-proach to the BEH degree (THES, February 25) could give rise to sentences out of context gace a slauted view of what was conveyed in the paper as a while needless alorm in colleges already offlicted with severe problems of re-

Yours sincerely, A. G. NOKES, Registror for education, Cumeil for National Academic Awards, Gray's Line Road, extension of activity in this field over the past four years, ingether with some speculation about future trends in the period of contraction in leacher training. This complicated

College versus university

Landon Wt'l.

Sire-Judith Judd is right to report the convern of college at education lecturers that the Gavernment evidentity applies different criteria in their calleges and to nurversity departments of education (FRUS) February 181. Arguments about the violde economic size of a teacher critection unit which layer heart used to further college characteristics. be ready to receive a range of pro-posals significantly different from the 30 BEd programmes so far ap-proved had been borne in on us by advance indications from colleges, perticularly the larger institutions. used to justify college closure, hace yet to be applied to much smaller

miversity education departments.
The grammas for concern are in creased when one reads the bland statuments of some of the projectsities defenders. Couracy of the suggestions of Dr W. Taylor colleges too are recruiting an interpretar

Engineering and accountants

that for a limited another alone. There is evidence to refore this graduate employering causal charge, although at present fairly very high quality with a proton thin. But let us assume that it is orientation meands manufactor, true, and ask; what then? Of all the indostry is referenced. It is expossible factors in this camplex that that one of the objective issue, I shall consider just two; one such courses should be to pid is a cause, the other a remedy, engineers capable of adminactor. It is generally agreed that the and the "right" apswers, to victorian antitudes (see Profeston Voors fairlifely answers.

THES, Nuveraber 26, 1976). I want the carried of the course that the sort in course that the sort in course the back, and at the some time to defend my own discipline uf classics from the general mint often put upon it in this respect.

Rhotlesian staff

Sire—Year crimesian of the limit the Greeks scorned technology—let

Rholes at Staff

Sire—Your criticism of the Unit Sire—Your criticism of the Sire—Interestity is appointments place—Interestity is appointment of the Siria place in the Interestity is appointment of the Interestity

could had to more effective shad been debated over two central and first properties of syracusan tradition of letters page 11

could had to more effective shad been debated over two central and first properties of Syracusan tradition of letters page 11

could had to more effective shad been debated over two central and first properties of Syracusan tradition of letters shad and first properties and shout 400BC by Eudoxuo go enable their full colemble shout 400BC by Eudoxuo go enable shout 400BC by Eudoxuo go en

Euduxus, soys Plutarch, "he roundly denounced them for corroundly denomined them for cor-rupting and debasing the excel-lence of geometry by making her descend from the world of ideas to the world of the senses and oblig-ing her to make use of material objects which are more appropriate to tradespender. As a result of his attacks analysasing was dispersed uttacks, engineering was divorced from markematics, despised by the philosophers and classified as branch of military science".

branch of military science. "There it is in a mutshell. Heath, the historian of Greek mathematics, says that we can without hesitation accept this stary as well-founded. It tallies exactly with what Plata says in Book VII of the Republic about the position which mathematics (genundry) is to hold as "a subject for study by those who ore to huld positions of responsibility in our atate" and alsout the grounds for its preabout the grounds for its pre-entinence, namely that "Ir will lend to drow the mind to the truth instead of 10 our present mun-done affairs".

Since then nothing has happened to change my argument -- though would not now make the implied sharp distinction between "liberal" (education) and "cons-tional" (training): one of the gains of the past decide has been the magnetic gains of the the progressive erosion of that the mately Platonic distinction.

Bot for the rest, all too little has that for the rest, an too fifte has changed. In particular what I then holded to as a remedy has proved much less successful than many lapest. I refer to the various ways in which schools have a tempted to man sixth formers an amount for give sixth-furpiers an appetise for

the education section of the British

As acciding at its Cambridge meeting in 1965, argaing that rechnology should be given a place without not as an adjunct to, o liberal education.

give sixin-infiners an appearance technidagy.

The semence of floorghi may like this, Residual social prejudices against rechnology me reinforced by an adventions feature of schools. Sixin-form reachers considerable properties of properties of properties of properties of properties. sclously or unconsciously pros-elytize for the subjects they coad

elytize for the subjects they ceue themselves.

But nolly an infinitesimal proportion of these reachers read technological subjects. We must therefore counteract that influence by introducion elythetemore to the attraction. counteract that intheoce by intro-ducing sixth-furmers to the attrac-tions of technology, especially to the excitement of "making things which work".

Curriculum changes

If we were to set about it imaginatively, we might not unly redievs the holance between puro unit applied science but also artract to rechnology some of those at present roading arts. For in our current state of, ignorance obnot the psychological profiles of engineers, we night find that thu typical engineer occupies a midway position between the poles of the scientist and the arty mun.

the scientist and the arts mun.

So doring the post II) in 15 years many people have been busy trying to give sixdi-formers a raste for reclinology. Three main methods have been followed. First is the creat on of A levels in engineering science (JMB) or design (Oxford). A recent orticle in the TES (Jannary 26, 1977) reported that the former is "a great disappointment in the JMB. Embes are still only indiging the 300 mark... The board attributed this largely to cooservatism among markers the board attributed this largely in cooservatism among miversities indicated that it is not universities indicated that it is not universities indicated that it is not universities indicated, the new A-level science.

Second, the new A-level science syllabuses are much more oriented syllabuses are much more oriented towards technology than they were. This is especially true of the Nuffield syllabuses in physics, chemistry, physical science end biology. All of them "see the impuration of applications" and "provide opportunity for the design exercises which many regord as me central technological activity".

It is encouraging to find that some of the new acience syllaboses under consideration for N & F levels carry the same trend still further. One promising physics syllabus saya boldly: "Wherever possible the teaching should make not of or lend directly towards the application of physics."

But maither of these was develop-





Plato's caste society rons from the philosopher kings at the top to the mere ertisons at the bottom. And the link between the two hierarchies is shown by the fourth-century use of the epithet "banausic".

Properly it means "pertuining to a craftsman or technician", but after Plato it took on the additional meaning of vulgar, in other words intellectually and socially inferior. And that uquation, wunton though it is, has echeed down the centuries in Eurupe.

Not that Plato's caste society rons from the industrial Recolation, the industrial Recolation, the industrial Recolation, the industrialism was intouse and long-lasting—indeed it is still the fundamental ideological entegory in our current educational debate. As a coeffict, however, it was hip-sided: industrialism was supported by the logic of production, but almost all the thinkers and writers were ranged ogelist it.

Respond Williams has pointed out in Culture and Society have men who, in other and istry, men who, in other and its still the fundamental ideological entegory in our current educational debate. As a coeffict, however, it was hip-sided: industrialism and romanulcism was intouse and bour current educational debate. As a coeffict, however, it was hip-sided: industrialism and romanulcism was intouse and bour current educational debate. As a coeffict, however, it was hip-sided: industrialism and romanulcism was intouse and bour current educational debate. As a coeffict, however, it was hip-sided: industrialism was supported by the logic of production, but almost all the thinkers and writers were ranged ogelist it.

Respond Williams has pointed out in Culture and Society have

it is, has echoed down the centuries in Eurupe.

Not thui Plato had it all his own way. Whot I call the true Greek tradition—the tradition by which master and since worked side by side finting the columns of the fontosile subletles of its mathematical design—that tradition was vory much alive among life great mathematicals and scientists of the seventeenth century.

The opening lines of Galileo's Two New Sciences (1658) contain educations between two Italian escientists, one of whann says of myself, being curious by nature, frequently visit this place [the New Yereign greens] for the meter autagonism to the philosophy and the effects of the new indostrialism.

The latellectuals shered the same antagonism, and they knew where to look fur weapons in the argument. Shelley's Defence of Poetry was the work of ou urdent Plutonist, no were later in the century Newman's Islae of Ouriversity and Arnold's Culture and Annuchy. But the most significent figure is colerated in their actions, and they knew where to look fur weapons in the argument. Shelley's Defence of Poetry was the work of ou urdent Plutonist, no were later in the century Newman's Islae of Ouriversity and Arnold's Culture and Annuchy. But the most significent figure is explicit in his debt to Plato.

In his notebooks for 1805 he

and rominitions was intonse and long-lasting—indeed it is still the fundanismtal ideological entegory in our current educational debate. As a conflict, however, it was imposted industrialism was supported by the logic of production, but almost all the thinkers and writers were ranged openst it.

Reymood Williams has pointed out in Culture and Society how men who, in other respects, would have been found on opposite sides of the barricodes were united in their actagonism to the philosophy and the effects of the new indosprialism.

A science for the people

Ideology of/in the Natural Sciences by Hilary Rose and Steren Macmillan, each E10.00 ond £3.95 ISBN 0 333 21138 3 and 21139 I ISBN 0 333 21140 5 and 21141 3

not experienced a certain unease concerning the marvels of modern science. It is not that we do not appreciate the benefits. Most of us

prinonaccinents is predictable, volumes called Ideology of/in the There are those who, ostrich like, Notural Sciences. The purple and deny that there are alffirm their story. For The Political who accept that there are diffirm Economy of Science we have a hofdeny that there is anything to worry about and there are those who accept that there are difficulties but do not believe anything can be done. Others out out, with the drawing to seek or build an alternative reality, while yet others stay and lust, adapt, correct with the help of a black and o Mrs. Much. luck away at the foundunutive reality, while yet others stay but try to adjust, adapt, correct and improve. And then there are close who beliave they must stoy but work for a completely clean sweep, start all over again, doing it the proper way this time. For them total revolution is the only possible hope.

to vary occording to an individual's perception of what a situation is, it tions will themselves be largely dictated, or at least constrained by, an initial decision on the necessary remedy. We are selectively blind to some thiogs while self-righteously "pragmatic edecticism threatened visionary about others. This does not mean that ideologically tinted aspectacles cannot focus sharply.

Thay can—but it will be on what is

considered most relevan

Until comparatively recently both the reformers and the regulaogreed, it sometimes account of science and its role in society. It was their prescriptions rather than their descriptions which were at variance.

Now, however, the Rodical Science Movement has reached a concerning the marvels of modern science, it is not that we do not appreciate the benefits. Most nf us do. But there are costs to pny and nowadays one can hear it proclaimed with increasing frequency that a gniloping inflation in the price of science and technology has reached an unacceptable level. ment, Illiary and Steven Rose, have
The range of reactions to such edited and contributed to two Mupp, hack away at the foundu-tions of a pedestal from which our misuspecting boffin is about tu

> The stored alm of the books is to clarify the way in which "the con-tradictions present within science could be seen as part of a general revolutionary perspective. The task includes the definention of the movement's enemies in clase terms for "providing the enemy used the some language of moral concern . . . it was difficult to distinguish friend from foe" and furthermore "pragmatic eclecticism threatened



cleoring a toad domnged during the Vietnam war. The royalties

worker is occually o worker-un which side of the great divide will ture? If science part of the have or is it just to bit of superstructure? If science turns out to be superstructure scientists "will in general find that the contradictions general limi that the contradictions of capitalist society do not opports them but serve to protect their privileges only position. On the other hand, if ecience is part of the productive process, 'scientiste' are really scientific workers who . . . become alienated . . from the products of their lebour . . . they ore professions, and as such form part of the professions.

of the palentlal revolutionary forces within society." It turns but that "science spans but the base and superstructure" and that the scientific cumminity can be divided but both scientific rorkers (friend) and a few clito scientists

(fae).

This discussion might seem to some to their Marxism on its head by objectifying and making a fetish of the theory itself, confounding the analytic with the symbolicand the malysis with the symbolicand the molytic with the symbolicand the molytic with the symbolicand the midyles has no validity. Furthermore any suspicion that the movement overcly wishes to squeeze reality into its own peculiar Procustem bed must be dispelled by reading Richard Lewintin and Richard Levin's paper where they argue against the sumetime Marxist position (which towes time Marxist position (which times more to Engels than to Marx) that dialectical materiolism can in itself produce o programmatic method fur solving any porticular problem.

solving any porticular priblem.

They insist Instead that real objects must he looked at in space and time and not lost in idealized abstractions. What dialectical analysis does do is to provide "and overview and u act of warning signs against particulor furms of degree in dangerous chemistics against particulor furms of these to different circumstances of the properties. Of study: we are stressed as a primary (though act caccusside in an in production, to although probably incapable of the unit of it, it is to act to the the tribute of the tr They insist Instead that real objects must be looked at in space and time and not lost in idenlized abstractions. What dialectical analysis does do is to provide "in our of sequing

and inddies according to the critical indicates and it is assumed that a contributing farmer (such as a biometrical concern for the movement turn. Such practices applied in the area of IQ, sex, race or ecology run be seen to ignore the complexity and the historical nature of man, woman and indeed the earld and to contribute to an invidious form of social control by providing a scientific for scientists, against as tian of an inexocable status qua.

With the possible to one essay which would to have suffered stylistically This is clearly illustrated in tean-Mure Lucy-Lebland's communities or tell writer in political meeting, between themsive orbitique, "Ideology at an Contemporary Physics". Such a critique, he says, cannot be limited to epistemological problems but their chollenge to concern

These beaks need to med to the dation to revolutionality doudaless use them is a arming and relining to tions. It would, however

Truth in morals for the future is to but tions of just what when people would look like

1.cgul Obligation by J. C. Smith Athlenc Press, £8:00 ISBN II 485 1154 3 It is, however, a similar must of in word! kind of an answer before the prepared to risk each for warse. Most of the wide little beyond the ritter of science for the hour the direction who farring is indicated in cuting of the two relies Moral Itensoning and Truth: An Essay in Philosuphy and Jurisprudence by Thomas D. Perry Clarendon Press: Oxford University Press, E6.50 180N 0 19 824532 7 facing is indicated in a

how to struggle success.

There are Interesting similarities the science and technology and instructive differences between fit and appression. Eventually the converties from the lands are to characterize the rational sevenament of the certain of pression and purisprudence, and are continued in the lands of the certain the new will really be disogree with Harr's account of ferent—or, if different moral reasoning and to find an olter-listary has revealed by native to it. I. C. Smith follows contradictions in come; Harc's model and transfers it from socialism ton and the woral to indicial decision.

socialism that and this is used to judicial decision.

It is to be cautious We not through the chance lobel through the eyes of the chance lobel through the eyes of the control of the co

maying of the two volcs, writes for a limited mudience of tainly Markist but hit scholars fumiliae with the technical degree of compassal details uf recent literature. Smith absect in such analysis ever a runge of related issues in the hope of clarifying the institution inquiry with unfasher of law os a whole, introduces them rather than fashooking the hope of clarifying the institution inquiry with unfasher of law os a whole, introduces them rather than fashooking the hope of clarifying the institution of law os a whole, introduces them rather than fashooking the beautifying the institution of law os a whole, introduces them rather the broker of legal theory generally, and shows how and investigation look well from philosophy, nthers from philosophy, nthers from the fine theory.

The tile of Smith's book nistleadingly suggeste u more costricted that he regards have us having two how the Chinese (logs in the the regards have us having two how the Chinese (logs in the voltant and the with the whole of the rational voltant and the respect, which he takes to be centred hinduceses af Wester the whole of the rational voltant in the law and in urdinside. Needlangly suggeste u more costricted that he regards have us having two how the Chinese (logs in the the whole of the rational voltant in the voltant in the law and in urdinside. Needlangly suggests the meaning of this concept and its class relations with a number of other concepts both in the law and in urdinside. Needlangly suggests the meaning of this concept and in urdinside with the whole of the rational voltant in the law and in urdinside. Needlangly suggests the meaning of this concept and its class relations the with the whole of the rational voltant in the law and in urdinside. Needlangly suggests the more concept and its class relations the voltant in the law and in urdinside with the wind in urdinside with the wind in urdinside the voltant in the law and in urdinside the wind in urdinside the wind in the wind in urdinside the wind in the wind in the wind legal decisions. From there he goes son to consider, in a fairly systematic and rigorous fashion, the structure

of legal rules and of a legal sys-tem. He ends up, too briefly and Ifur once) rather lamely, with some remarks on fundamental or human rights and their celation to obliga-

The most interesting chapter, written jointly by Professor Smith and his colleague Professor S. C. Coval, is on the structure of legal decisions. They reject the view of Runald M. Dworkin that a legal system consists mutually of from rules but also all horses principles whose amplication is a matter of

Smith and Cavel work out an ingenious and persuasive acrount in which the principles are second hetween first-order rules, but in a prerise, objective manner and am are following Hare's view that all mural judgments are universalizable and they are claiming that it applies to legal judgments too.

So far as legal judgments are concerned, one of the leading cases relevant to the issue is Riggs v. Pul-ouer, in which the court decided that a murderer should be harred from inheriting under the will of his victim, the ground of the decision being the principle that a man should not kenefit from his own wrougdoing. This ense plays a central part in Perry's discussion of legal mualogy to moral judgment. But Perry tries to use the case in support his view that, where there is a conflict of that, where there is a conflict of mural principles or uf legal rules, decision is a matter for individual discretion and is not susceptible af objective treatment or of universal treatment. tratinn, Carlously to my mind, he thinks that there would be no general agreement among laymen that the court was clearly right in its pri-

In giving criteriu for assessing moral rensuning and the truth of numal judgments, Perry produces a sophisticated theory which is fundamentally suciological. He thinks that the ultimata objectives of moral reasoning ere to reach respect, and that teath in morals is in the end conformity with social consensus. A bold summary such as this cunnot do justice to the elaborate detail whereby Perry distinguishes his theory from cender versions of the same type. The full account is well argued in some parts but needs to be stated with

D. D. Raphael

Meaningful dispute

Linguistic Heliaviour by Jonathan Beonett Cumbridge University Press, £6.95

something to have abstrong in the sense in which sentences, words and signals have and footprints in the sand have not, is one which it has become commonplace to regard as a every to have the meaning in meanings that it has is mutidle, for it has provided a dispute in the academic community of no less proportion than the legendary abduction of Helen by Paris. In escace, if samewhat super-ficially, this conflict over meaning can be seen to resulte into a dispute between those who contend that it is in inpossible to give an adequate necessary in the concept without reference to a complex set of audicace directed intentions possessed by a speaker, and those whose arcount of meaning is framed in the content of meaning is framed in terms of the system of syntactic and semantic rules that determine the structure of language. According to this latter position, it becomes a purely confingent matter that the rules that determine meuning can be used for the purposes of cummunica-

Professor Jonathan Bennett entors tha lists as a pruponent of the certicr view, arguing that language is faudamentally a matter of system-

a two-stuge thesis. The requirement is to clu of communication os primitive and tree of either direct or indirect appeal to linguistic meaning, while the second stuge o the argument is in show how this later cuncept can be explained in lerms of the former. Basic in the first part of the enterprise is that of giving substance in a speaker awning suncting in an audience directed product, such as a noise, gosture or oction. This "meaning samething by "is customarily specified in terms of a speaker intending in bring an oudlence to beliovo something ar in react in a cortain woy and of intending that the audi-

indred his intention.

Benacit develops a series sophisticated arguments to show that intention and belief and thos speaker's meaning and audience's recognition of meaning can all be established on a hehavioural basis. His strategy here is to legin from behavioural evidence and, using the notion of an instrumental predicate, to formulate a telephogical low making reference to what a given creature registers and profess creating registers and prefers. Registration is a gents which via

the concepts of educability and in-quisitiveness allows Benneit passage in the species intention and belief. At this point Bennert's people make their appearance. Initially without language they are capable of intending to produce boliefe or responses in others by Issuing pro-ducts, the status of which as evi-dance does not depend upon why dence does not depend upon which he agent produced them. At this stage the author is concerned to show how the analysis of linguistic menuing in terms of speakers' meon-ing is to be established. The argument mayes from an accumn of occasion meaning, largely iconic in character, via a discussion of convention to a full system of regular menning. Here, as with the first port of the text, the argument is

Bennent's peuple are unhuntely given o language, Tribal, which is consonant with the earlier stages of the orgunent. This language of designators, various types of predicates and operators enjoys the Lukations of the provincial slewcz notation for quantification theory and is free of symactic ontheory and is free of symacilc on-biguity. The language is semanti-cally hased and though non-trans-formational in character can pro-duce infinitely many semences. Linguistic Behoviour treats exten-sively of the hehnylourol lacts which show what sentences mean and of the lacts about the meanings

which show what sentences mean and of the lacts about the meanings of sentences which show what words mean. It is a book that will provoke much philosophical comment has lis wider implications, especially its chollenge to the assumptions and claims of transformation of generalized by the sentences. rotivo linguistics and to cognitive psychology, make it a tox; that ne scholar working in the area of language atudy con offord to ignoce.

Critic of monotheism

onvid Hume: The Natural History

edited by John V. Price Llarendon Press: Oxford University, Press. £10.00 ISBN 0 19 824379 0

the psychological and social meets where the first edition of anisms by which religious belief ile." Dialogues was published ond

the psychological and social mechanisms by which religious belief ilevelops, maintains, and expresses itsalf. It comes an aumo surpoise, in view of the significance of these works, to learn that thece has never been a wholly accurate version of that toxt of either. This wa ara now offered by OUP.

Tha History had a complex publishing bistory which has bean uncavelled by the work of Mossner, and which Colver accurately and briefly summarizes in a short introduction. But the outhoritality text itself is something of a disappointment. The policy which Colver bas followed in the certain of the first edition of the policy was, published ond by when.

But philosophically, the position is much the same as with the History. Kemp Smith, in his revolutionary edition of the Dialogues was, published ond by whan.

But philosophically, the position is much the same as with the History, Kemp Smith, in his revolutionary edition of the Dialogues forty years ago, introduced tha now orthodox view of the work. Far from being a defonce of the argument from design for God's entered, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial inlight suggest, Humo's work in tenee, as a superficial in tenee, as a su

he had originally written "non-sen-sical", he later wrute "non-sensi-cal". All the changes from one edition to another are of this level, possibly of interest to a lexico-grapher of eighteenth-century English or even m a student of sivia, but without interest from the philo-

ISBN 0 19 B24379 0

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cientific (or scientistic) equivalent of the erstwhile religious justifica-Gad utade them, high or boyly, And order'd their estate becomes: "Science has shown it's inevitable because it's all in the

a hody at knowledge about the nature of the natural world them, on the whole, the tadical science morrowest would be prepared to welcome it so home as it was and welcome it so long as it was used for the people. A Poppering appearsh is rejected only in that it

is irrelevant irrelevant that is to the political stance of the move-ment where science is seen first and harmost as an artivity. Science is scientists daing things. It is the activity Itself, how its practitioners are organized and the ose that is made in the activity that is relevant for critical seru-

epistemological prublems lun should alor "at the economic, pudi-ical, ecciological and even psycholo-gicul implications of science." He duscribes the idealogical duscribes the ideological exploi-tation of physics and the various status and power hierarchies which are to be found within the dis-

Reductionism is a perfectly acceptable, indeed invaluably useful, methodological toul. It is merely a procedure for explaining the properties of simplified, model systems, of holding all parameters except one constant, and vorying only arise when a mol is elevated into a philosophical principle. What happens is that all but one of the multitude of variables which ore in constant interaction are interaction and interaction are interaction and indeed Western and entitled an

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Pope's hypocrisy

Alexander Pope ISIN II 435 18774 0

Mr Heeves has written a brillbont and indignam book. Unable to talerate Pope's hypocrisy any longer talerate Pope's hypocrisy any horger—the hypocrisy that would allow Pape to abuse Broome in the Danciad a mere few years after Broome had translated large chanks of the Odyssey for him, for oxomple—Reeves has been driven to question the basis and validity of the Pape myth. Himself a pact as much as a critic, he is that care thing among critics, a humane person who finds much mastiness intolerable. finds murul nastiness intalerable. Hence his main, and just, objection

Of the Dimeind he writes: "The Dinices' were real men, linck-writers, mostly, without Pope's unquestionable talent. They were pilloried, and meny suffered. They pilloried, and meny suffered. They were pilloried for the greater glory of Alexander Pope. When I call the District at evil poem, therefore, I mean that it is morally uply and therefore nesthetically unacceptable. This kind of objection halds good fur many of Pope's other poems, and to his manipulation of his remutation so as to be in the

lish departments to teach Pupe as the solenn defender of "Augustan" values, the Christian funningst who values, the Christian funninist who embodies Good rejecting all manifestations of Evil. It is, however, on easy to see him in this way. I do it myself. For in re-creating the supposed historical and entimal environment which produced Pope's paems for the benefit of students who find it so allett, it is upputlingly easy to ignore the actual morality of the puems. It is even custer to forget to wonder whether easier to forget to wonder whether thay are, in fact, paems at all,

But Reeves refuses to take Pope on trust, and so be can point time and again to technical shortcomings and logical flaws, especially, and supersingly, unintentional false antitheses. And it is to his credit that he has written at extremely funny book. Where so much literary criticism is pompons and self-important, Reeves, while by no means self-effacing, is never self-inquortant, and he is at his founiest when analysing the pourposities of others.

Inoked at front the severely neademic standpoint, the limb has shortennings. The survey of Pope's critical reputation which accupies the first half finishes at 1964. Some will grandle that this Is unt really good enough for a look published in 1976. And yet by 1961 the main trends of modern Pope criticism had been firmly established; and in any case, it was not Reeves's stated intention tu give a complete and up-to-date biblingraphy of Pape studies. It could be objected in addition

that not enough attention is paid to the memphorical implications of allusion as explored by Pape. But that is precisely the attention that we academics traditionally pay it. Reeves's questioning probes deeper quite simply because he is working good fur ntony of Pane's ather poems, and to his manipulation of the public eye as much as possible, an activity which, as Reeves says, instituted him in "chlemery, dishonesty, and frequent downright cruelty".

These points are not new, but they do need to be restated in a time when academic criticism of Pope has gone so far towards taking him at the value of his awn protestallats that it justifies and mythologises at will, ignoring the palnful psychological, personal, and social underpinnings to the poems. Thus, it is usual in university English departments to teach Pupe as the soleon defender of "Augustants" at the contage of theirs. I do the contage of theirs. hus given me the comage of my convictions. I hope he will give others the conrage of theirs. I do not think of Pope when I am ill, grieving, or laving. I do think of Spenser, Milmu and Shelley.

There will be many pedantic, abjecting, revolve of Recre's bank. But I doubt if they will be able to continuert him and it. Popi is at the manneat grossly over valued by most academics. It is time we saw his limited talent for what it was.

Douglas Brooks-Davies

Chaucer's contemporary

To those who remember the extraordinary cheapness of the old Everymen'e Librery, this volume might seem expensive, but in fact it is excellent value, especially in the paperback adition-the contulete works (probobly) of Chaucer's greatest contomporary poet, at 40

by marginal glosses, with footnote the quetrain arrangement

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translation by Herek Brewer. Anderson exhibits the medic val virtue of patience when cooffunced with the pact's knutty, compressed and incleate style as this is represented by the scribe of the single manuscript; and again and ugain he is able to make good source of must able to make good series of pussages where Collance had resort to overconfident emendation. This Cleanuess is in fact a bester pnear thon Collance's, more varied in sectax and rhythm and in the relations between these and make the relations. between these, and in the relations between these, and more thoughtful in expression. My only regret is that here, as in Potience, Andrean has printed the poem in quarrains. The marginal marks in the mann seriou has be no more than the mann seriou has be no more than the mann seriou has been as the mann seriou has be no more than the mann serious that the mann serious than the mann serious tha The volume consists of Cawley's of the stille's of poet tomming of the stille's of poet tomming of the stille's of poet tomming of the lines; if they are taken as quarrun divisions, they often tag learly logether with Anderson's now emphatic pausit the sense. The Gowaln ond the Green Katight and Pearl, logether with Anderson's now edition of Claumass and a revised version of his cerilor schalerly edition of Potiance. All four poems are printed in the original shalling, except for the elimination of yogh and thorn and the regulorization of u/v and 1/j, and they are accompanied by marginal glosses, with footnote irritotingly ogalist the state. I have emphatic pauses are required at the emphatic pauses are required at t

by marginal glosses, with footnote translations of the many passages of spacial difficulty. Thus for the first time the four poems reliably attributed to the Gausoin-poet are available in a single volume, in a foron which is authentic yet sets on unnecessary berriers in the reoder's way.

Since only the adition of Cleanness is completely new, some brief comments on it may be helpful, Not surprisingly, the text is e great deal more conservalive than that of Gollagar (which has receotly been republished with a complete prose

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ANNE WILSON

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Sources and

Analogues of the starting period of transition between the elighteenth and nine-teenth centuries.

The gains of reading moved by good anthors, which is not always the same thing. The method has advantages. There is less to read. The less lufornation, the easier to advanca pseudo-historical theories about traditions, Great and otherwise. Cary Kelly is a critic who believes, however, that literary evolution should be studied us it happened—along with subsite changes in ideas and in the people who held them. What is more, he really knows the novel, many mixels, in the interesting period of transition between the elighteenth and nine-teenth centuries.

The gains of reading novels—or novels by good anthors, which is not always the same thing. The method has advantages. There is less to read. The less lufornation, the easier to believe, however, that literary evolutions should be studied us it happened—along with subsite changes in ideas and in the people who held them. What is more, he really knows the novel, many mixels, in the interesting period of transition between the elighteenth and nine-teenth centuries.

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The Alliterative

the fourteenth centucy alliterotive paems 351

Fair Forms EDITED BY M-S ROSTVIG

Essays on structure in literia y cuntposition. 248pu

WINNER & WASTE

cannut accept that "idealism, even heroic idealism, is impractical". Shaw is already looking for idealist the central texts. Unfortunately his Shaw is already looking for idealistic attitudes which can find a successful expression in action, for the

will's remorse for his fellow-radicals' preciphancy. Of Godwin's fiction he apparently prefers the Wurdswarthlan Flectional, written in 1815 when the Jacobia cause in England was bretrievably last. He finds Gudwin altimately less happortant for writing Jocobia novels than for helping to create the Romande helping to create the Romantic novel.

To be convinced, one needs to know more about built categories.

Which are the English Romantic

30013

as retreating from it: Kelly anti-bures much of the emotional com-plexity in Calch Williams to God-win's removee for his fellow-radicals'

unvels for which Godwin paved the way? Fronkensich ? And on this showing, how far is the Jacobin novel ait entity at ull? Kelly Is

constraints—ecanonile, legal, social; the tyranily if alen over women; the enotional fatters with which women, especially, chain themselves. The Jacabins mass characteristic lange, of an individual imprisoned, proves as typical of Dickens's novels as it is of Richardson's. If they do make the novel's real tradition, it is four tradition of the challer of convention of the control of the challer of the control of the challer of the challe for trying to convey the quality of life in an advanced society as most themselves cannat make good nuvels—but, in a decade in which the competition is from Fanny Aur-ney, the Jacobins deserve some credit for being able to see a church

Marilyn Butler

Plays in performance

th Directing Shakespeare by Ralph Berry Croom Helm, E5.95 ISBN 0-85664-329-7

stage representation. Hander and the other plays of Shakespeare have so vast and so complete a form when read, that they can but lose heavily when presented to us after having when presented to us after having undergone stage treatment. That they were acted in Shakespeare's day proves nothing." The statement does not come from a Victorian any agonist of the theatre but from Edward Gurdon Craig, one of the alost important writers on the theory of the stage in this century. For the whafe of his life, Craig consistently maintained that the best but in his general study. The English Jacobin Navel, he leaves her out.

Rather than write about oll the lesser English navelists who ever advocated the principles of that French Revolution, ha has opted the cancentrate an the four best—Bage, luchbald, lloleroft and Goldwin. The hencfits of his method include room to sat out much new information about nuch new information about the political entwictions which ore worthwhile novels such as Elizabeth lneshnid's Simple Story and Godwin's Caleb Williams. But there are drawbecks, too. Writing first-

perfect realization of the text; "the great harm done by scholarship is great harm done by scholarship is to try to make choices, and even make quarrels over who's right and who's wrong. . . Rather, you won entlessly to come back to meeting this vibration in all its fullness and with all the ambiguity of something that does change through the ages." Brook's statement is perhaps the cleorest explonetion of the ratioonle behind Ralph Berry's book. Professar Berry has interviewed seven contemporary theatre directurs and the hook consists of the interviews loosely edited. In fact, I wish Berry had not been so reluctnot to edit: had not been so reluctant to edit; the book has too many repetitions, too many phrases that are emburras-

insights like Brook's one can for-give a lot.

The directors come from widely differing backgrounds: there is Brook the outsider, Jonathan Miller, Trevor Noun, representing the lloyal Shakespeare Company, Robin Phil-Shekespeare Company, Robin Phil-lips from Straiford, Outaria, Michael Kahn from the other Straiford in America, and two continental direc-America, and two continental directors, Kourad Swinarski from Poland and the Iridlian Giorgio Strehler. Yet in spite of the different theatrical comests, the directors, gently prodded by Berry, keep returning to the same questions. How is it, for iostance, that particular plays are mode "relevant" at porticular those? How servesant is the tore? mode "relevant" at porticular flores? How sucrosauci is the text? Are indoted productions viable and responsible to the text? I would responsible to the text? I would recommend anyone who tends to disporage modern-dress productions out of hund to read Robia Phillips's sensitive explanation of hierasure for Mensure set in the post-Frend Vienua of 1912. Trevor Num's conments on cutting are as provoking us anything biblingraphical studies have produced for a long time: "when you approach the text of Hacalet, the cutting virtually is the production. What you decide to production. What you decide to leave in Is your version of the pluy". Jonathan Miller's discussion of his colonial Tempest explains exocily why an interpretation of the text surfaces at e perticulor historical innerture.

cal juncture. Berry's own Interventions in the Berry's own Interventions in the interviews ore less rewarding. Interviewers used self-effacing interviewers and Berry's recentric ideus on certain plays merely obstruct the line of thought the interviewed director is pursuing. None the less, os we come to realize that the study of Shakespeare must be the study of the plays on stage, acrry's hook shows in flashes how illuminoting such an approach can be.

Peter Holland

Shavian realism versus idealism

varili while novels such as Elizabeth Inchhald's Suaple Story and Godwin's Calch Williams. But there are drawbecks, too. Writing first-rate criticism about secund-rata books is harder than it may look. Even if one has read Holcroft's Aum St. Ives, 30 pages of analysis seem all their length and those who have not read it ony find these a

have not read it only find thent a sevore trial. Besides, has the selective approach helped to bring out the ossence of the outter—what

the Jacobin navel os such is obout?

Kelly emphasizes the changes in Godwin's thinking, his abandonment of some of the more extreme positions he advanced in 1793 in Politi-

cul Justice. On this reading, even the first novel, Culeb Williams, is not so much advocating revolution

Jacobin conviction

Shaw's Aloral Vision : The Self and by Alfred Turco Jr Cornell Polyersly Press, £9.45 ISBN 0 8014 0965 9

teenth centuries.

The gains of reoding more are not all historical. The best of a minor writer may be as funny or as elegant or as moving as much of a major writer. But sometimes, to be honest, the motives for engaging with a particular figure are historical or they are nothing. Mary Wollstoneeraft, so significant in the origins of the wanter's movement is

origins of the wamen's movement, is a case in point. Mr Kelly's edition

a case in point. Mr Kelly's edition of her two novels is a useful contribution to a field as yet unt well served by scholarship. His notes are much ntore informative than is usual in this aneven series. But unfortunately Mary Wallsroneeraft for all her siocerity, and despite the strength of her case, is not a gifted writer. As a movelist, she hardly makes the second division. Kelly claims what he truthfully can in his introduction to the two novels.

A whole generation of Show's critics has laboured to dispuse of anclent' attack mon his characters os mere tidking heads, his plays or harely dramatized froets. Eric Bentley, Martin Meisel and Margery Morgan have ably established his artistic merits, the range and subtlety of his dramatic techniques. Professor Turco imw feels that it is safe to return to the study of Shaw's ideas without supplying ammuition to the Show-is-areacher-not-a-playwright school of pinion. His concern, ns he makes

clear in the preface, "is not with the origins of Shavian thought, but with its inner coherence". Beginning with the novels, Turco races the growth of certain hasic concepts through the early plays attempt at creotive synthesis. In

with a dialectic neethed like that uf Shaw himself. His discussion of the country able. He cleims that Shaw significantly misreads Hrand, Ghosts, The Master Builder, because he country after the country after Heorthreok House, be country after the country after Heorthreok House, be complete a prior that the here and now.

This bouk is all the more effectiveness. Although Turco is impressively famillar with the whole runge of true. Show's work, end supplies a brior leme rantald.

The Master Builder, because he plays after Heorthreok House, be D. S. BREWA with a dialectic method like that uf

Shavlan realist needs o transcendent gual to vulldate the intuithus of the self. This he finds in the Life Free of Man and Supermen, where the individual will hocomos a part of the world, and the hurnessad to the progressive poatry elsowhere, in John Bull, for machinery of Creative Evolution. machinery of Creative Evolution. Yet even hera there is intertainty, in the bumpy descent from the clouds of dream-vision to the inadequare Tanner and his marriage with Ann Whitefield. It is scercely to this counle that one expects the superninn to be born.

In the three plays which come after Man and Superum, Turco sees this uncertainty developing into a tregic vision. The comfortuitle Hell of Mon and Supermun provide a debating-chomber e ultimate salutiuna ere thrashed out, but with folin Bull's Other Island we are shown an carth-bound place of torment from which there, is no such ceey escape.

Major Barbara, for Turco, is finally a fallure, although a heroic one, wragmatism of the earlier wark being met with the idealistic purpose of the later. The centre of the book then takes the form of an intended analysis of three places. STERKENWALD

STERMENWALD

STERM

concenuration on ideas rather the dramatic representation of ideas can blur ar distort his rending of individual plays. On Major Bochara he is excellent, both on the control of the contr the play's successes, and on the follure of its ending where, os he ocutely remorks, "the pseudo-poal in Shaw is straining to hide the defects of the philosopher". But he axamplo, with the mud Father Keegen, Reegen, according to Turco, tookes the a regular Shavian trivial with Broadhent and Doyle. Lorry Doyle the self-exiled Irishman is viewed as a possible mediator between the visionory dreaming of Kaegan and the uncomprehending business drives of Broadbetts. The structure of John Bull 1s, however, less symmetrical and perhops more interesting than this pattern suggesting than this pattern suggestion. less symmetrical and perhops more interesting than this pattern suggests, becouse of the relative feilure of language and characterization with Keegon, and thoir blinding success in the character of Larry Doylo. The final vision which Keegan afters us is pretty well pure theorical halonay. well pure theotrical halonay, whoreas the bitter salf-destructiveness of Larry, which compiles him with Broadbant to the ruthless "development" of his nanye

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t is a commonnlace that literary

to themselves as para-criticism or meta-criticism. Much current wark in the theory of fiction is available only to realers fairly well educated

in philosophy: never to have read a

novel is no langer a major disability, but not in have read flusserl and Derrida is to disqualify anself.

It was not always thus. In the Age of Criticism it was possible for a major critic to proceed upon a few hunches, a temper, an intuition or a lively beauty.

tion, or a lively body of prejudice. T. S. Eliot was trained in philo-

1. S. Eliot was trained in philosophy, but he was not philosophically ambitious or insistent. John Crowe Ronsnm did some congental hootework by reading Kant and Hegel, but he never made himself anything more than an amateur in easthetics. R. P. Blackmur, like Williom Empsou, played his hunches. Allen Tata picked up a few tunes from Meritaia and. In

few tunes from Meritaia and, in later years, from Willam P. Lynch

and other writers, but he was not daunted by philosophical master-picces left unread. His temper lea

D. C. R. A. Goonetilieke

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BOOMS

Critique of criticism

the activity of literature. They wrote wictory at last by appeal to his criticism along the margin of such works as The Waste Land and by Allen Tute

the activity of literature. They wrote wictory at last by appeal to his knowledge of illusion. Emphasizing the fictive nature of partic languing, he is not intimidated by nature.

the relation between these works Theory of Criticism : A Tradition und other questions, religious, political, moral, metaphysical, and so forth, but they did not think of Johns Hopkins University Press, criticism as a form of literature, or Pderittere in the current sense. $^{\prime}$

Allen Tate's Memories and Essays s interesting because it exemplifies the comiguity of creation and crisi-It is a commonplace that literary criticism is maying beyond itself or is beside itself with a rage for prophecy. Critics are no longer interested in literature or in chicidating its forms and processes; they aspire to the condition of theology. Many recent books which are shelved in university libraries us works of literary criticism would more accurately find a shelf in metophysics. The profession is already beyond criticism, engaging in enterprises which call attention to themselves as para-criticism or ism in the years of the early New Criticism. The memories are mainly of writers atet in Paris when Tare first sought the centre of the paeric universe; or of friends he knew at universe; or of friends he knew at Vauderbilt or in New York, There are glimpses of Hemingway, Harr Crane, Ransom, Donald Davidson, Robert Penn Warren, William Faulkner, Gertrude Stein, Ellor, Valéry, St. John Perse, John Peale Bishop, His tone is informal enough to negative them to describe Heming. Bishop. His tone is informal enough to permit him to describe Hemingway as "the complete son of a bitch who wrote about cortain friends, all of them defenselessly dead, in A Moreable Feast". I would not wish the tone, on this occasion, more

> The ossays are also foirly re-laxed; they are designed to express an attitude upon writers well estab-lished rather than to exert any great pressure upon the received account of makers license. of modern literary history. Writers or modern literary history. Writers treuted in this way include Crane, Poc, Vuldry, Faulkner and James. Tate is strennous only on one occasion, his uttack upon the New Humanism of Bubbit, Moro and Forestor, a provenent soluble forest. forester, a movement totally forgotten now but big in 1929. The new book is best rend, therefore, as a collection of informalities to be placed beside the formality of the work rollerted in Essaps of Four Decades, the official testimony to Tate's starus as a major critic Tate's status as a major critic.

There is no informality in Mr daunted by philosophical masterpieces left unread. His temper leading to make a distinction between the symbolic imagination, largely Iwo rival attitudes to the given world of, natural forms and appearances, but the distinction was personal rather than categorical, it stated a preference rather than a doctrine.

It is clear that the New Critical and interesting the poem. The critics were often poets in the art of reading was required. The critics were often poets in their own right, or novalists, or they were closa to poots and movoflets and in eny casa close to the poet of the poem. The critics were often poets in the poet of the poet of the poem of the poe Krieger's Theory of Criticism, un

first obligation was in help a reader ters thrown down in the name of to get along with the new works. Thereafter the critics might explore exist, full of solicitations to which the reader responds; the response goarantees that the experience is Theceufter, Krieger couredes that thu human mustery which art con-

hadies is merely provisional, a mas-tery in parenthesis, but he argues that the mastery of the word helps man in create for himself the place which he lives. Beath proves that the victory is merely local and temporary; diarlrony defeats synthrony in the end. Meanwhile the reader emertains the illusions of art by knowing them to be dreams. The presence of the poem defers the moment at which is falls to the offi-

Krieger's argument depends upon our accepting that poetic language is different from ordinary language, and that the difference constitutes the presence of the poem. I am not sure that the difference is thoroughly established. One of the problems is that Theory of Criticism depends upon Krieger's earlier work in critical theory. earlier work in critical theory, especially upon his The Tragic Vision, A Window to Criticism, The Plan and Place of Criticism, and The Chesic Vision. Despine cross-references, the developing armilem arises from the tart that until of Krieger's organient un cruvia topics is given as communitary upon other critics: Plate and Aristotle on initation, Sidney on fictiveness, Shelley on imagination, Young on genius, Pone on order, Coleridge on phor, De Man un front, Derrida on absence. This commentary is extremely interesting in its own place and right, but it makes the urgament difficult to follow.

Krieger is most bacid when ho-feels himself under pressure from modern Structuralists and therefore-under the abligation to distinguish his position both from that of Struc-turalisms and from that of struchis position both from that of Struc-nuralism and from that of the Geneva School of "consciousness-chleism". He must trace his own path between the positivism of the one and the idealism of the other. But when all is suld, I random see that Krieger's position differs very much from, say, Itansom's, in which the presence of the poem is estab-lished by uppear to the secular miracla which constitutes pactic form, Krieger's position is of course form. Krieger's position is of course much more cluborately defined and

Denis Donogline

Satire and symmetry

John Gny: The Beggar's Opere by Peter Elfed Lewis Edward Arnold, £2.95 and £1.65 ISBN 0 7131 5895 6 and 5896 4

"Bo the Author who he will we push hie Play as far as it will go", says the Playor in the introduction to The Beggar's Opero. Yel no play has aver neoded less pushing in whatever tanks. Commercially it has succeeded again and sgain, runding for nearly forty performances at its first production, and acarly fifteen hundred when Nicel Playfair fifteen hundred when Nigel Playfair revived it at the Lyric Hammer-smith in the early 1920s.

smith in the early 1920s.

Perhaps because of its success on the stogo tha play has elways stood beyond the ambit of ordinary criticism. But when it reveals o richness and a "labefaction of all principles" might hera been more headed bad to to go no to essume that, this being so, the play was "joilrious to morality". But when Mr Empson clessed the play as a version of pastorel, and ettempted a reading which, superficielly, might seem to have "pushed" the work in smother way, his interpretation oventually emerged as something that the work could comfortably sustain: Such thiexpected 'resilienca; combined, with suoil popular auccess, seems to be common man treating tho play made :Tho Beggar's Opera; albeit an anil-heroc one, presupsished.

specialist study rather than useful criticism, and this neglect of a masterpleco has dono nothing for ibo broader appreciation either of Gay or of English eighteenth-century drama.

moral order. The challenge is runtomarily eraded.

This fundamental difficulty is presumably the reason why The Beggor's Opera is hubitually

criticism, and this neglect of a masterpleco has dono nothing for 100 broader appreciation either of Gay or of English eighteenth-century drama.

The great merit of Peter Elfed Lewis's volume in the Studies in English Literature series is that it goes a long way towards remedying this situation. In form it is no more than a modest essay; considering the play in terms of various ganres as opers and anti-opera, as romanca and anti-romance, and as satire. This apparently simple and systemstic reading-out of tho play might not asom to promise much. But whet it achieves is considerable, is since, it reveals o richnoss and sublishy that has lo ba spelled word of the play that has lo ba spelled word of grasp all that ho does.

Beyond tids, it saems, there is another research.

This fundamental difficulty is tomarily eraded.

This fundamental difficulty is presumably the reason why The Begon's Opera is hubbitually mouled in performance—which, being the unpushable work that it is, it can perfocult well stand; but the manling is regrentable ull the same. Whether it is prestified by Brinten it is, it can performance—which, being the unpushable work being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it can performance—which, being the unpushable work that it is, it

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But even the poet's imagination that its limits. Professor MacCaffrey flits evidence that Spenser is losing faith in the ravelatory powers of his of his own art as the poem draws of its close. Words elip and slide:
Ata appears with her cloven tongue; and though Malfont is punished for his bad verse, the Blatant Beast, that embodiment of all the forces which reguld microse

This Week in Ramsay MacDonald ch the Fall itsell is the ultithe agent of the hero's education, and mutability the means by which sail things "their being doe dilete". Shakespearo has no ideology, he

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ERIC HOMBERGES individual to the state of the state o rersion of the old Mecmants man-tute and part of the old Morgue in Abbey Street, Dublin, into the Abbey Theatre in 1904. He ends

These twn books could not be more different. Muriel Bradbrook's is a collection of essays and lectures, chiefly on Shakespeare and Jonson, sparkling, andacious and original, glancing at and swiftly illuminating her subject. James Flannery's work began as a doctoral theais at Trinity College, Dublin. It is a big, the termined, enryclopedic work, so full of information that the finer points have to fend for themselves. The works are nlike, however, in their insistence reseates the world of life Elizator and private play with outstanding vividuals, knitting together tha court splendours, city processions, public and private plays, actors, plays dentification of similarities keeps the world of life Elizator. It is a bethan play with outstanding vividuals, knitting together tha court splendours, city processions, public and private plays, actors, plays dentification of similarities keeps the world of life Elizator. It is a bethan play with outstanding vividuals, the court splendours, city processions, public and private plays, actors, plays dentification of similarities keeps the world of life Elizator. It is a bethan play with outstanding vividuals, the court splendours, city processions, public and private plays, actors, plays and privat

speare's Elizabethan English theatre and Yeats's post-Purnellite Irish theatre are more obvious than the similarities. The later theatre, so much the smaller and lesser thing, is buthed in a floodlight of documentation. Influences, aspirations, decisions, triumplis, failures, quarrels, reconciliations, opinious and more quintons are all available in reis, reconculations, opinions and more opinions are all available in letters and reminiscences and newspaper entrings. We know the size of the stage and the fabric of the scenery and who designed the customes and how many were in the audience. All this Dr Flannery records

Dr Brailbrook, on the other hand, is working in a field where after gonerations of patient research all is still surmise and inference. She re-creates the world of the Eliza-bethan play with outstanding vivid-

that their dramatics cannot be antherstond except through their cheatres and ambientes, and the manable life of the society in which the theatres came into heing. In their in real life this was approached theatres came into heing. In their in real life this was approached the theatres came into heing. In their in real life this was approached the theatres came into heing the file of the society in which the theatres came into heing the file of the society in which the dramat study. The arrival of these two looks on my desk on the same day I accept as an omen. For to my end-of-empire eyes the achievements of Shahespeare and Yeats are the golden dawn and golden sunset of our completed cultural day, and to rach the tree-pool a clisted by a file outstanding of each the tree-pool a clisted by a stowledge of the other.

The contrasts between Shakespeare and Shakespeare and his fellows were the individual of the other.

The contrasts between Shakespeare and Yeats's post-Purnellite Irish and Yeats's post-Purnellite Irish pleare are more obvious than the

Gregory were creating a theatre our of the vold. It is not to bolittle the imagination and boldness with which Kyd, Marlowe and Jonson changed the shape of English drama to say that they did not have to worry about the chasm which is Dr Flantery's processing the chasm be nessed with great pleasure Dr Flannery's productions of Yeors's Calvary and The Resurrection. It is about the chasm which is Dr Flantery's preoccupation, the chasm between the ideos of n mnn of letters for o quito new dramu and the brutal reality of getting an actable play into performance in a theatre before a paying undience. Yeats sow himself as Aeschylus or Shake-speare, making the united purpose of the nation of the new epoch evident in the communal rite of drama, and he saw himself as heir to the oldest until deepest traditions of his country, but his problem was not only to create a new form of play, very and the Resurrection. It is very much as a man of the theatra that he writes this book, and hy far the best chapters are on Years when he is actually in the theatre coping with the technical problems of speaking and aethus, or orgaing with Gurdon Craig about the screen. SCICCULS. In the years since Dr Flounery has been in Dublin he has evidently forgotten that the immortal Dublin torgotten that the immortal Dublin booksellers are Hodges Figgis, not Hodges Figpia. Indeed the book is full of careleas misprints, I am sorry to any, and bewildering phrases which may or may nor be meaningful to the author. What is o derit "replete with flying horns"? What is I and Gregory supposed to may any Congress of the may find the flying horns. not only to find actors and managers and a thearre and money, but olso to navigote the newly built drama in history one of any actor in the

bitter sens of autagoolsm and hos-tility from those who refused to acrem the new cultural volce of tha Is Lady Gregory supposed to mean by "giving up Parnell to please an English howl"? And what of the English theatre of the nineties, "bowdlerized by shoost a commy of illustrate mobrole"? For £16.20 Dr Flannery is equally helpful on the exhausting progress from Yents's ethereal conceptions to the rocky subatonce of the live theatre, and on the hostility of Griffith, Moran, Kettle and the rest, relecting Protesyou would expect more carefully ing the dramatic image. Is it additional

Philip Edwards

Establishment essays

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This particular itam is Troilus This particular tiam is Trodus ond Cressida. The more venerable members speak first. Dryden, who felt compelled to rewrite it, argues that in it Shakesneare's genius lay buried under s "heap of Rubbish", and Rirhard Duke aycophantically supports him: "You found it dirt hut you have made it gold." Dr Johnsou displays his usual robust common eense: "His victous characters sometimes displays but cannot cannot be made to the common eense the support of the common eense to the common ense to Tages through the world again.

Trofessor MacCaffrey's interpreduced under a "heap of Rubbish", and Rirhard Duke sycophantically supports him: "You found it dirt but, and sho sees The Poeria Queens the record of a light which, for list besuty and truth, ultimataly fells, I would not arrept this contained in the second of the second of a light which, for sometimes disguss but cannot corrupt, for both Cressido and Pandarus are aletested and condemned."

This, if not particularly illuminating the second of the second ing, seems mora to the point than Hazliti's whimsical romanticlam:
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Though they are much reviled by some of my colleagues who want their students to read difficult books rather than onsy selections, the Casebook Series have given mu n good deal of innocent plaasure. Often this romes not so much from the serious contribution they make to the understanding of their extensible to float with the heath of imagination in a freer element."

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Soma younger members of the faculty see getting restive, beginning to suspect that Huzlitt has not read the papers. Charles Lamb, however, puralocally restored in grant the virtues of a sound classical education:

In the limitation in a freer element."

in Chapman's version at least?
If he had read it, could be meon to trocesty is in the puris of thosa big boobles, Ajax and Arhilles? Ulysses, Nesior and Agamemuon, are true to their parts in the /liad: they are gentlemen at For the rest, more rereur mem

bers debate the details: is Trollus a sensualist or an idealiat, or both? a sensualist or an idealiat, or both?
Is the play an ami-tragedy or an ani-tragedy or an ani-traged or ani-tragedy or an ani-tragedy or ani-t

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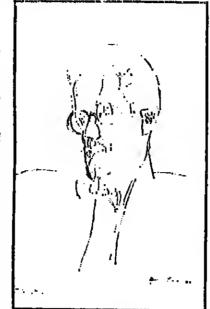
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This is another intricate and ingenions exegosis of Francisms Worke. The nother is a contributor to "A Wake Newslitter" where a corpus if such exegesis is accumulated and it such exegesis is accumulated and its book now joins those of Atherina, Campbell and Robinson, Glasheen, Hart and Tindoll as one of the central guldes or keys which offer in make Finnegans Hake more occessible. It makes a good contribution to this activity, but it also oraches occasion to wonder about button to this activity, but it also provides occasion to wonder about the activity itself.

Melingle's approach is through characters, or the newest Finnerous Wake courses to them. Mrs tilasheen's Census identified various studies extended and "persuas months."

acturs, speakers and "persons mentioned" in the limb and audited their counceins with the five protogonists—HCE, ALP, Shem, Shown and Issy. These "characters" had each his shorthand sign, or sigla in Joyee's working nutes. But us Joyee's work proceeded these "sigla", representative of lones, qualities, stillades and stillades qualities, artitudes and attributes



these Purtrall of James Juyce by Wyndlones, ham bewis

"sigla", representative of tones, quintities, a timides and attributes made hosely againerated than "character" would suggest, became the organizing terms of the hunk, it is thus less true in sny that the Mookse is Shann than in say that the Mookse is Shann than in say that the most speculative critical harperties of the sigla which represents Shann. That is the hunden of Mellugh's lmok and I think he is perfectly right. He pursues his argument with energy and dentil, writes lucilly, unearths many new connexims in the lmak and is very interesting on other siglo heymol the basic five. The work is precise, aften elegant.

I suppose this must make for accessibility. Or does it? I wondor whether a certain fallure of nerve with Finnegans Woke should still be an persistent. The specialists of exegesis luke the lank right.

Miches

I suppose the finnegans Woke should still be an persistent. The specialists of exegesis luke the lank right. Weither does and attributes that hard of the hunch it with an every private and achieved connexing and achieved connexing the hunch it with the most sight the most speculative critical hardens, avademic and schieved connexing and achieved connexing the hunch it with the most sight the most speculative critical hardens, avademic and schieved connexing and achieved connexing the hunch it with the most sight the most speculative critical hardens, avademic and schieved connexing and achieved connexing the hunch it with the most sight the most speculative critical hardens, avademic and schieved connexing the hunch it with the most speculative critical hardens, avademic the most speculative critical hardens, avademic and schieved connexing the hunch it with the most speculation in his hunch it with the most speculative critical hardens, avademic the most speculative critical hardens, avademic and schieved connexing the hunch it with the most it with the most it with the most speculative critical hardens and schieved connexions in the most it with the most it with the most it with the most

achieved literary entry ed nore illustranimale par each of the sigla age. What reductivism is land hund: which construes a

sight? What is really

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The Flant Years of Thomas Hardy, 1912-1928 by Harold Orel Maccollinn, E7.95 ISBN 0-333-19454-3

Thomas Hardy's Novels: A Study Gulde by Maureen E. Mahon Holnemenn Educational, £1.25 ISBN 0 435 18552 7

I cennot find eny inspiration from or in these two hooks. They ero eddressed to very different kinds of reador, noither of whom is it easy to identify with. In the first instance, the reoder unserupulous enough to respond to Professor Orel's exhortation to re-order Hardy's poems into e conjecturally in the story of his love for desrets Emmie's. It ethe second, the A level or first-yeer university student doello enough not to feel insulted when Miss Mahon tells him that: "The reader finds For tant because what happens to the insulted when Miss Mahon tells him that: "The reader finds For tant because what happens to the insulted when Miss Mahon tells him that: "The reader finds For tant because what happens to the university exception to score the most into the called unything of the called unything or the Dynasts, they elie in the every different kinds of reader than what has less times varialls is our help lessness to do other than what has been willed for its 10 do." A form the unikelihood is time to the reader of the felicity of the less to the product of his love for the privilege of shering with the matter fails to continue the reader of the felicity of the likeling about "the organisational continue to the stilling about "the unilkelihood is being there et

nfter her death. But dhe Hardy really higher the world to "study that relationship" in the puerry? It is a question, apparantly, of cracking the cule, of "reading hetween the lines". There is no senso of the different qualities of discretion and confession in different puers, "Yea, name shall gather what I hide!" Hardy's admonishing exception to scores the credibility of scores that it hide!" Hardy's admonishing the credibility of the case where the credibility of scores that who often enough those many often enough those many often enough those many often enough those many credibility. I would have been considered.

What do we know obout Hardy's oxperlences that will help us to our sense of liardy'e devolopy products of his lest 16 years, the five volumes, of poetry and That five volumes, of poetry and That Famons Tragady of the Queen of Cornwoll, published after the doalh of his first wife, Emma Levinla, in 1912? Whot evidence, on the other willings shout Hardy's own feelings and oploions shout his merriage, the past, nature, topical events, the fanswer is in hoth cases—a little.

It is not more then a little disarmingly innocent vision of the mutual corroboration between the good pages on Emma herself, on slong a more crushing that the writing, He has some of his last decad Hardy in some students, in the little and the writing, He has some of explaint than her usually been admitted, indeed to exceetly the sort of engoysing persument of the with Hardy for 38 years and beyond that, even more Intimately, in the minor rondjustments it makes to our sense of liardy's devolop ment. There ore some useful or some entire or some on the sould defects, particularly style. What is distributed that the lute 1850s, on the lute 1850s, on the lute 1850s, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rechitect, on some of the consc of his morriage, on the rectumed the returned and ordered the strangement of the returned th

SCHOOL OF SOCIOLOGY Applications are invited from well qualified ancioinglate to any field for the above-mentioned post which will become systlebic in January February, 1978, as the commencement of the Australian scadamic year. The School of Sociology hos a lurge undergraduate programme and over fifty postgraduate students. 13 May, 1977.

ABERYSTWYTH

THE UNIVERSITY COLLEGE

SCHOOL OF CLLTTC STUDIES

1 April, 1977.

ABERYSTWYTH . THE UNIVERSITY COLLEGE OF WALES

DEPARTMENT OF EXTRA-Actional are invited for the poet of tall-lime TUTOR in the above department, to man on 1 October, 19 the sarry at possible the control of th Further particulars to be ablated from the Registrar, to seem a processor of spend bo sub-direct by 51 March.

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BIRMINGHAM

THE UNIVERSITY

31 March, 1977.

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The reach of Mellights such characteristics of the rescaled to the r Adult Education General Vacancies

Colleges and Departments

Appointments wanted Other classifications Awards Announcements Exhibitions For Sale and Wanted Courses Holidays and Accommodation Typing and Duplicating



Applications are invited for the following pacts, for which applications close on the deles shown. SALARIER (unless otherwise of steel or as a follows: Prolocor 9429,687; Pool-doorers Follow \$43,860-\$48,269; Centec Lecturer \$413,69-\$48,269; Centec Lecturer \$413,69-\$642,2010; Lecturer \$413,69-\$642,369. Further doisile, wonditions of apploration and application form, where opplicable, may be obtained from the Acectation of Commonwoolth Universities, (Applo), 36 Oorden Square, Lendon WCH OPF.

Murdoch University

Perth, Western Austrelie LECTURER IN BIOLOGY

(BIOCHEMISTRY)

(BIOCHEMISTRY)
School of Environmental and
Mis Sodenose
Ocan: Professor J. F. Lonotogen
Mordack University, Western
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The successful applicant will be primarily responsible for a course in Cell Metabulism, but will also be expected in avelat with other correct in binlogy. Applicants about possess a higher degree in blochendstry.

April 2022

University of New South Welse, Sydney

SENIOR LECTURER

Appointments vacant

Universities

The apparature will be Head of the Department of Behavioural Sciences. The Department offers courses of study in Anthropoliting Psychology, Sociology and Sociol Work, and it in riented towards interdisciplinary tenching and rewarch. Proferency with this type of neadcante sapericace and orientation.

29 July 1982

Jemee Cook University of North Queenalend

PROFESSOR OF

BEHAVIOURAL

SCIENCES

LECTURER IN ELECTRICAL ENGINEERING

Osporiment of Electrical Engineering Engineering
Cantidates should hold a first degree in electrical engineering or in physics and an appropriate higher degree or reterning postgraduata experience. Evidence of useful research work is essential. Lecturing duties will include undergraduata bectures in send-candidate materials and numerical sundysts. Activa testach in one of the areas already established within the Dipartment will be expected.

A point 1972. 4 April, 1477.

Monach University Melbourno LECTURER DEPARTMENT OF MUSIC

The appointed will be required to indectake undergraduale (pass and humans B.A.) teaching and graduate IM.A. Sin Ph.D.) superviction in mouseningical theory and research methode illichning bibliography, pale quaphy, cilling and idvarringiabily, needlesal and renaissance music and general negocia of Western musical history, literature and analysic. A broad musical training, o higher degree in historical compatence and terilary teaching experience and terilary teaching experience are essential. Prefarance may be given to an applicant with a bisinry. 31 March, 1977.

LECTURER/SENIOR LECTURER DEPARTMENT OF SOCIAL WORK

Oppriments of field fields
Physics A Nuclear Physics
There is a position for a joint
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Depurtment of Nortculture

[a) Lecturer in Plant Breeding;

(b) Lecturer in Forestry;

QUALIFICATIONS;

(a) A good first degree in Hurticulture, Agriculture, or Botany, and o ligher degree in Plant Breeding.

(b) A good first degree in Furestry, and a higher degree in one of the major lidds of Forestry.

1. FACULTY OF AGRICULTURE

2. FACULTY OF SCIENCE (11 Department of Physics

(ii) Department of Engines
 (iii) Lecturer in Solid State Physics/Microwave Physics/Meteorology/Geophysics
 (iii) Department of Biological Sciences

UNIVERSITY OF SCIENCE

AND TECHNOLOGY

KUMASI, GHANA

Applications are invited from suitably qualified persons for the under-mentioned varant pasts :--

(a) Sealor Lecturer in Plant Ecoingy; (b) Lecturer in Zoology;

QUALIFICATIONS:

(a) Condidates must pussess a good licel degree in Rolany or Glology and a postgraduate qualification in Ecology.

[b] Candidates must possess a good degree in Zoulogy or Glology.

3. FACULTY OF ENGINEERING Department of Geodetic Engineering

OUALIFICATIONS Candidates must have a university degree in Physics or in Mathemetics; or
 A postgraduate Academic und/or Professional qualifi-cation in Geodetic Engineering/Land Surveying.

4: FACULTY OF SOCIAL SCIENCES Deportment of Economics & Industrial Management

(8) Lecturer in Industrial Economics/Building Economics;

(b) Lecturer in International Economics/Monejary Economics

ics ; (c) Lecturer in Public Sector Economics/Private and Public

i/mance; (d) Lecturer in Production Management;

(d) Lecturer in Production Management;

QUALIFICATIONS:

(a), (h) and (c) Comildates should possess o gond degree in Economics and should have specialized at an advanced level in the field of the post for relich they are applying. Preference will be given to thoso who have negatived practical experience attec graduation.

(d) Candidates should have a good degree in either Industrial Management or Engineering. In the case of conditates with an Engineering degree a pasigraduate qualification in Industrial Management is required.

5. FACULTY OF PHARMACY

Department of Phanuncognosy

QUALIFICATIONS:
A good first degree plus some research experience in Chemierry or Medicinal Plants.

SALARIES:

Lecturer C7,100 by C200 to C7,700 per annum Sanlor Lecturer C7,100 by C200 to C8,600 pec annum let current rate of exclionage C1.95=£1 sterling).

Other benellis include subsidized rents, cer maintenance allowance, free medical facilities end children's ellowance. Free medical facilities end children's ellowance. Free medical facilities end children's ellowance. Free salary supplementation from the Bellish Covernment at the following rates: Lectucer, £2,460 to £4,740; Sandar Lacturer, £3,594 to £5,274 per sanum.

Application forms may be obtained from the Overstein Representative, Universities of Grana Office, :15 Gorden Sandar, :15,0000 WCLH OAG. The closing date of the advertiseracit is March 30, 1977.

UNIVERSITY OF EXETER CHAIR IN

COMPUTER SCIENCE Applications are invited for a new Chair of Compuler Science tenable from Seplember, 1978; It is hoped their en appointment can be made by July, 1977.

Selery will be on the agreed professional renge, currenlly £8,108 minimum, £9,489 average por annum. Further perticulers should be ebleined from the Academic Registrer & Secretary, University of Exetor,. Northcole House, The Queen's Drive, Exeter EX4 4QJ. Closing date for receipt of applications (13 copies. overseas candideles 1 copy) 28 Merch, 1977.

UNIVERSITY OF **BOTSWANA AND** SWAZILAND

UNIVERSITY COLLEGE

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ASSISTANT DIRECTOR IN THE DIVISION OF EXTRA-MURAL SERVICES.

EXTRA-MURAL SERVICES.

Applicante abould have a Mastere degree or PhD in Adult triuralion plus at loast three years' orgenience in teaching south et a
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UNIVERSITY OF MALAWI VICE-CHANCELLOR

Applications are invited to the post of Vice-Chencaltor of the Latverbilly of Malawi which talls vecent at the end of October, 1977. Applicants allorid have appropriate tecadamic qualifications and substantial administrative experience in an educational live experience in an educational institution of highor learning. The appointes will be responsible for giving a tead in the formation and implementation of educational policy and for preventing eart meintaining the good order and offective working of the University Heyste will be expected to take auch actions the management of the Travilla in the internal and offective working in the latvertile that a live and offective working the harping their sinks it rotation in the management of the Travilla pood order and offective working of the University the auch actions to the province of the policy of the province of the

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UNIVERSITY OF CAPE COAST

GHANA

following posts: (1) DEPARTMENT OF CLASSICS:

Lecturer/Assistant Lecturer with special interest in either Ancient History or I therefore.

(2) DEPARTMENT OF ENGLISH:

Lectures in English Longinge and Literature. Candidates should be specially in one or more of the following fields: Modern Impublies, Inchiding contrastive analysis or recto-luquistics; African Drana; American, Afro American of Caribbean Literature; 16th and 17th Century Literature.

(3) DEPARTMENT OF FRENCH:

Profesor/Assoulce Profesor, preferably with interest in 19th Century Fearth Literoture.

(4) DEPARTMENT OF GEOGRAPHY:

Lecturer In Biogeography.
(5) DEPARTMENT OF PHYSICS:

Sealor Lectures / Lectures with spacialization in Theoretical Nuclear Physics or Dynamical Meteorology or Deceronics or Instrumentation.

(8) DEPARTMENT OF ZOOLDGY:) Lectures to Frodownter Hiology.

Lectures to Frodownter Hiology, Interest in parasitology will be un

adventings for post II.

(7) DEPARTMENT OF CURRICULUM AND TEACHING:

(8) SCHOOL OF AGRICULTURE : IAI Senior Lecturer/Lecturor in Animal Science; IIII Senior Lecturar/Lecturer in Crop Senice; (C) Arnior Lecturer/Lecturer in Sell Science. (9) DEPARTMENT OF BOTANY:

(9) DEPARTMENT OF BOTANY:

(A) Lectures in Plant Analomy;

(B) Lectures in Plant Analomy;

(B) Lectures in Plant Analomy;

(B) Lectures in Professor; Ct0,104 per annum;

Associate Professor; Ct,238; per annum;

Senior I ectures; C7,100 x C2001 (x.640) per annum;

Lectures; C4,900-C7,700 per annum;

(At current rote of exchange C1.95 equals 11 Sterling)

Other benefits include passages for appointed, wile und up to 5 children, generous homo Leave, subsubbed necommodation, children's allowance, car maintenance allowance and from medical otheriton, in appropriate carse a fee-free sulary supplementation from the Oridsh Government may be paid for lighten and frish notionals of the following rates;

Lectures; \$2,400-44,740 per annum;

Associate Professor; 11,900-15,640 per annum;

Associate Professor; 11,900-15,640 per unnum;

Professor: 24,194-13,374 per annum;

Application forms are obtainable from the Senter Assistant Registrar for CC, Ghom Universities Office, 15 Gordon Square, London WC111 on Closing date of this indistributional is 25th March, 1977,

UNIVERSITY OF SINGAPORE

SCHOOL OF ACCOUNTANCY AND **BUSINESS ADMINISTRATION**

Applications ere invited for tasching appointments in Applications ere invited for tacching appointments in the Departments of Accountancy and Business Administration. Candidelss should possess a professional quelification in Accountancy and/or a Master's dagras in Business Administration or Commerca. Praisrance will be given to candidate with professional and/or leaching and research experience in one or more of the following ereas: tha lollowing eraca:

FINANCIAL ACCOUNTING
FINANCIAL MANAGEMENT
COST AND MANAGEMENT ACCOUNTING
QUANTITATIVE TECHNIQUES IN MANAGEMENT
AUDITING; INCOME TAX; CDMMERCIAL LAW
INDUSTRIAL RELATIONS

Candidates should lodicate the Department to which Candidates should lodicate the Department to which they are applying and the aubjects in which they are compaint to leach including their areas of specialisation. Grose monthly emoluments in the renge from \$\$1,390 to \$\$4,750, approx. The initial emount depending on the cendidate's qualifications and experience and the level of appointment offered. The gross amountments comprise basic satary and the Netlonal Wages Council wage ellowances. In addition, the University pays a 13th month annual ellowance of one month's satary in December of each year; and contributes to the satiry and silowances. Leave, medical, housing and other benefits are also available. Candidates should write to: The Registrar, University of Singapore, Singapore 10, giving currioulum vitae (blo-date), with full paraonal periloulers and also the names and addresses of three referees. names and addresses of three referees.

> UNIVERSITY OF GUYANA VACANCY DEPARTMENT OF BIOLOGY

Applications are invited for the post of

LECTURER in Physiology/ Biochemistry

with a bies towards plants Applicants should have at least an MSc Degree. Teaching and research experience would be an advantage. SALARY SCALE (Per Annum) US\$1.00 := G\$2.55, Lecture:--UA3: G\$9,000 x G\$450.00-G\$14,760.00

Benefile include housing allowence, contributory medical Benefils include housing allowance, contributory medical end pension echames. Anyone recruited from overseas will receive up to four full economy sir passages (le for himsell, wife end unmerried children up to sighteen years of ege) from point of recruitment to Guyena, limited removel expenses and a setting-in ellowence.

Applications (3. copies), stating name, date of birth, marital status, qualifications end bales obtained work experience [with deleat, names and addresses of three relates fonc of the relations must be your present or lest employer, where appropriately, must reach the Personaed Christon, University of Chyana, PO dox M1; Cabraelowh, Guyana, bators 31el Metch, 1977.

the company of the state of the

University of Guyana

YACANCY-DEPARTMENT OF ENGLISH Applications are invited for the post of

LECTURER in English Literature

Applicants should have a higher degree

Profusions will be given in an applicant who is qualified to loads one or many of the following: Culticat Theory from Plate to the present. The Medern European Nevel, 19th and 20th Confidence; Children's Literature: Alle-American Literature. Salory will be in the range O\$8,000,00-O\$14,760.09 per minimi | US \$1.70 ≈ G\$2.95].

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UNIVERSITY OF GUYANA

VACANCY-DEPARTMENT OF MATHEMATICS

Applications ets invited for positions of

LECTURERS (4)

in the Department of Mathematics

Applicants should have a higher dagree in one of the following lisids: Mathematics, Stellatics or Computer Sciences.

SALARY SCALE (Par Annim) US\$1.00 = G\$2.55 Laclurar-UA3: G\$9,000.00 x G\$480,00-G\$14,760.00. Banalis Include housing allowance, contributory modical and penalon schemas. Anyona recruited from oversans will raceive up to four full economy air pessagos flo for himself, wife end unmarried children up to eightook years of aga) from point of racculment to Guyana, limited removal expanses and e Seltling-in allowance.

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MOUNT ALLISON UNIVERSITY SACKVILLE, N.B., CANADA

Applications are invited for an appointment in the COMMERCE DEPARTMENT to leach undergraduate courses in Accounting and Systems/Management Science, Rank upon. Candidates must have a relevant higher degree with substantial teaching experience and preferably professional accounting qualifications of well.

Salary commensurate with qualifications and experience.

For further details please contact: Professor David Highmu, 32 Charles Street, Wigns Lanes, England, Telophone: Holsforth 532-587-795

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ASIAN INSTITUTE OF TECHNOLOGY

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Applications are invited for scadamic positions in the loi-

APPLIED MATHEMATICS

ENCINAERINO ECONOMICS ENYTRONMENTAL

HUMAN SETTLENENTS

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Appointments begin on Ren-tomber, 1, January 1, or May

The Asian Institute of Technology, situated in Bangkok, Theilsod, pes international satisfactory of their statement statement of their statement o

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Applications are invited for two Lectureships in Economics from 1st October, 1977 Practices may be siven to can place of the Support for ATT comes from twonly povernments throughout the world.

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THE OPEN UNIVERSITY ULSTER: FACULTY OF SOCIAL SCIENCES THE NEW UNIVE STAFF TUTORSHIP in EDUCATION (the SOCIAL SCIENCES

East Anglia Region East Anglia Region

Applications are invited for appointment to the post of Statilater in the Sectual Sciences, busined at the Open University regional office in Last Anglia Applicative shealed have specified in the Applicative shealed have specified with an interest in the modul Schences included experiment with an interest in the appendicular increase to the Healened Objection with a appropriate to the Healened Director in the appendicular handless and forces of the Healened Interest of the University of the Interest of the Healened Interest of the

Application loans and luther particulars are obtainable, by postored request please, item The Persennel Mannger (572), The Open University, P.O. Fox 75, Wallon Holl, Milton Keynes, MX7 6AL, telephone Milton Keynes 63968. Clealing data for applications: 16th March, 1977.

ULSTER: THE NEW UNIVERSITY SCHOOL OF SOCIAL SCIENCES LECTURESHIP IN SOCIAL WORK

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THE TIMES HIGHER EDUCATION SUPPLEMENT 4.3.77 Universities continued

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READING THE UNIVERSITY LECTION SHIP IN STATIONALS Applications are invited for a Lactureship in Statistics in the Department of Applied blacking Capalled in the Invited Capalled in the Invited in Applications of probability statistics or Operational Reporters

The perann uppointed should lake up dulies on liciuser 1, 1977, or such other date as may be prospect. Parther Information may be obtained from the Regular House for Whilefughts Information 214, Whilefughts House, The University Whilefughts Heading, Bid 241, 182-40, 1810 241, 1977.

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CENTRE FOR EUROPEAN ACRICULTURAL STUDIES

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Applicants should be gradu-nies in Connumics or Agricul-

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Applications are invited for a Lectureship in Virology in the Dopariment of Riological References, tapedo from 1st October, 1977. The successful candidate will be associated with the research group led by Prolessor O. G. flura's working on aspocts of the virology of animal casts. Initial salary with the within photomer scale; and the control of the

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RESEARCH STUDENTSHIPS:

The National Environment Research Council is overing in the 287 research and an object for postgraduate training in scientific aspects of the natural environment. There are three main types of award:

(i) University or polytechnic based studentships. (I) CASE studentships. Some of the awards, known as Comperative Awards in the Sciences of the Interconnent (CASE studentships), are based at universities or polytechnics and each is linked with an industrial or other non-academic institution which will cooperate in providing eastered verticing rescatch training.

(iii) Institute-based studentships. A smaller number of awards are tenable at Government-funded research institutes, in all cases a university or polytechnic both allows. In all cases a university or polytechnic both allows. For John supervision and higher degree registrations.

Many of these sandout thips provide an appropriate form of training for graduates with a first degree in the environmental sciences such as geology, physical geography and the biological sciences i others are more suitable for graduates in areas such as engineering, mathematics, physics only chemistry whom NERC particularly without to attract into the environmental sciences. Studentships will normally heght on a floctober 1977 and be tenable for up in three years. The busic prant for 1976/77 was £1,270 plus approved lees. It is currently under review. Awards ore made in students who hold good homours degrees, or the equivalent, or expect to obtain such qualifications in 1977. They should also have been resident in Great British for at least three years fexchilding period of full-time higher education).

Alterny most of the studentships have been alloyated to (iii) Institute-based studentships. A smaller number of

Alcearly most of the studentships have been allocated to particular universities, polytechnics and research institutes. They can be taken up by students withing to study in specified research areas under the supervision of mancel menibers of staff.

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In addition there will be a small number of studentships
for award later in the year thus:

for award later in the year thus:

(1) A special ensupellition will be held for up to 5 scalent-ships for prospective students of ourstanding research medit who have already formulated their own research proposal. Applicants should submit a stetailed account of their research proposal to NERC by 1 April 1977 on application form RS1 (Comp) 1977.

10) An appeals competition will be held during August in response to applications made through heads of the departments where students wish to study. The limited number of studentships then available will not be restricted to departments or research nreas to which awards have already been allocated and prospective students may wish to make inquiries to university or polytechnic departments obout research irolating possibilities.

Full details of the inculon of awards already allocated and

Full deteils of the inculon of awards already allocated and the research areas within which they may be held, also forms RSI (Comp) 1977 are obtainable from the University Support Section, NERC, Albambra House, 27/33 Cascing Cross Road, London WC2H OAX, telephone 01-948 9232.

NATURAL ENVIRONMENT RESEARCH COUNCIL

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FELLOWSHIP

COMPUTING IN THE SOCIAL SCIENCES

The Social Science Research Council and the University of London Computer Contra (ULCC) Invite replications for a Fallowship to investigate ways of increasing the electrical sciences. The eppointment will be let two years and applications on the brais of secondment would be welcome.

socondment would be welcome. The intention is the at the ond of two years educe chould be alwented in the council on how beet to improve the use made of computing includes in the could solence, particular situation being paid to the organization appeals. The person in question will have be expected to cover policy development in telefion to the intention of the provision of the necessary settlines, and on ways of outstrong the provision of the necessary settlines as well so that officials outligation, both in the chott and in the longer term. He/she will be assetted in the by standence tax an excessor of the Council's Computing Committee. Close Helson will be expected with social eclentais in assessing their needs, and with edvisory groups in Compute Centres, Regional Centres, Mechine Renge Groups and other relevant bodies. If is anticipated that the holder of the post will have to lievel extensively within the UK and possibly chrose.

possibly obroad.

The post is beed of ULCC. The is one of the three large Regional Computer Centree and plays an important role in the UK Computing scone. The person appointed will be expected to be closely involved in the work of the centre where this is relevant to his/her needs.

The post will be peld on the ceals \$5,000-£11,000 p.s. and it is hoped that the successful applicant with be eble to take up the post in September or height.

Further particulars can be obtained from : -Mr. C. J. Caswill,
Secretary, SSRC Computing Committee,
1 Temple Avenue, London EC4Y, 980
Olosing date for receipt of applications: 8th April 1877.

Polytechnics

Portsmouth Polytechnic

HEAD OF DEPARTMENT OF BUSINESS STUDIES

767 Thie post becomes vecant in September, 1977, on the retirement of the present incumbent.

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Applications ere invited from cendidates with high acedemic qualifications, substantial business and administrative experience, and an active interest in research. Selery according to Burnhem Scale Grade YI, £8,037 plue appropriete proportion of cost of living supplement to £8,913 per annum.

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Feather: particulare end application forms may be obtained from the Staff Officer. Pertamoult Polytachnic, Alexandra Hossa, Misseum Road, Portemoult PO1 200, to whom adaptated applications should be returned by March 28, 1077. Please quote pr. C50.



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ULSTER COLLEGE

THE PORTHERN IRELAND POLYTECHNIC

Faculty of The Arts

PRINCIPAL LECTURER or SENIOR LECTURER or LECTURER II-Modern British Political Illstory

In the event of an applicant for the post of Principal Lacturer being of aultebie catibra and experience, he/she may be offered an eppointment as Reader and given porticular responsibility for the organisation of research Faculty of Technology

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Applications ere invited from Charleted Quantily Surveyors or holders of oquivalent dogree or professional quelifications, to locture to the listly exampting professional Diplome courses in the primary surveying

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The initial appointment will be within the Lecturer it seels with progress to Senior Lecturer subject to the

LECTURER II—Environmental Health

Applicants should be graduetes in environmental heelth or an eseoclated discipline, registered with the Environmental Health Olitoers Registration Board and will be required to teach to degree level in subjects covering environmental health administration, tood hygiens and salely, pollution control and occupational hygiens. Faculty of Social and Health Sciences

LECTURER I or LECTURER II—Psychology

Slott are (squired to teach Psychology at both Dagree and Diptome level on a range of courses in the Feculities of Social and Hasith Sciences and Business Administrailon. Applicants should be committed to the tesching of Psychology in applied or professional areas and should also have a strong interest in one of the following: Social, Physiological, Clinical or Davelopmental Psychology.

Asisry Sceloe : Principal Lecturor Sonior Lacturer

£5.940-£6,042/£7,579 \$5,031-\$5,955/\$6,417 \$3,279-\$5,493

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All Salary Scales subject to £312 supplement
The Polytechnie is n direct grent institution with an independent Board of Governors, it opened in 1971 and now has a student population of some 6,100. It has extensive new purpose built accommodation, including 750 residential places on the 114 acre campus over-isolating the sea at Jordanstown, a placent, and quict residential side. There is a scheme of essistance with removel.

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Firither particulars and epplication forms which must be returned by March 24th (April 4th for Quantily Surveying position) may be obtained by telephoning Whiteebbey (0231t 85131, ext. 2243, or by writing to: The Establishment Officer, Ulater College, The Northern Iroland Polytechnic, Jardanetown, Newtownebbey, Co. Antilm 8T37

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Applications ere invited from qualitied persons with Applications are invited from qualitied paraons with considerable expanence of computer management, pretarably obtained at a targe computer installation. Experience of working in an advectional onvironment would also be an odventage. The Polylachnic is shortly to install a large ICL 2960 computing system; the person appointed will be responsible for a wide range of computing services beset upon this machine. Selary on the Burnhem goels for Grade V—£7,395 to £9,271 p.e. plus supplement of £312 p.s. or proportion thersof.

Application forms and further details may be obtained from the Giati Officer, Portsmouth Polytechnic, Alexandra House, Museum Rosd, Portsmouth PO 1 200, to whom completed applications should be returned by 25th Merch, 1977. Please quote rel. Ffs.

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Applications are invited for SSRC Studentships tenable in the Schools of Communica-Ilon Studies and Psychology from September 1977. These studentships, awarded for Iwo years with the possibility of extension, are currently valued at £1,270.

Candidates should hold a good Honoura Degree, but those graduating this year will be considered.

Further particulars and application forms

The Director of Studies, School of Communication Studies, Uisler College, The Northern Ireland Polytechnic, Jordanslown, Newlownabbey, co Antrim BT37 0QB.

Telephone: (0231) 65131, extension 2453.

LECTURER GRADE II/ SENIOR LECTURER in Art Design History

Applications are livited for the shave post from sultably qualified honours gradueles. The person eppointed will be taquired to tench life history of design on courses in ext and design, including a foundation course. Sslary: £3,279 to £5,955 (bar) to £6,417 plus

Puriber details and form of application from the Chief Administrative Officer, Trans Polytachnio, Sunton Street, Nottinghem, Talephone 0802 46248, extension 2059, Closing data March 444 Talephone 0802 46248, extens Closing dele Moroh 14, 1977.

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Lecturer II-Senior Lecturer in Electronic Engineering (£3,591-£6,729)

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The major computer lecility, operated by the Polytechnic Computer Centre, is an extensive C.C.L. 1933 system: Within the Department there is a C.E.C. P. 11/40 computer supporting 18 isoching terminals at the present time A wide range of other acupment is available within the Polytechala. within the Polytochaic.
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The person eppointed must be able to teach up to honours degree level and applicants should be civil engineering graduates with appropriate teaching and assembly precitical experience. They should have a pecialist interest in Hydraulics, Hydrology, Public Hooth or See Mechanics; the ability to teach Surveying would be a added adventers. be an added edventage.

Salary Scole: £3,528-£6,324 (bar)-£6,807, with initial placing depandant upon approved prior experience. Financial essistance lowerds the cost of removal expenses.

Further patificulars and application form obtainable from the Acting Head of Oepartment of Civil Engineering, Oundee College of Technology, Bell Street, Dundee, DIN 1HG, to whom completed forms should be refurned not later than March 18, 1977.

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HEALTH EDUCATION STUDIES UNIT

Chief Educational **Research Officer**

The Unit will begin work in October 1977 and be located at Hughae Hall, Cambridgs. It has been established for an Initial flys year period.

The C.E.R.D. will be assponelbis, under the overall The C.E.R.D. will be assponsible, under the overall disclion of the Unit's Principat and the Councit's Education Committee, for that half of the Unit's work levolving health aducation in achools. The person appointed will need to be able to develop deeled proposals for this work, but in general terms it will include investigation of existing precises and curricule with retainers to health aducation and the development and evaluation of new procedures. Lielson with, and courses for teachers will also be part. The C.E.R.O. will also dopuliso for the Principat as necessary. for the Principal se nacessary.

A laisvant firel degres, extensive experience in development, and the ability to lead a smell team and work clossly with others, are essential. Experience with the in-service training of teachers or in educational assearch would be an adventage. Selery: Principat Officer 1 Upper, (25,408 to £6,057 plus £312 supprement) or secondment selery it appropriats.

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This increasing demand for modern training has led to the creation of a new position for an Assistant Management Training

We wish to appoint a man or woman with both experience and notential, who will be responsible for designing and organising specific management courses. Tutoring as well as directing these courses, and ensuring that they remain fresh and relevant, will be a significant part of your role.

You will also be responsible for setting up and running the lirst year's training programme for the cumpany's annual intake of university graduates.

Aged between 25-45, and educated to degree level, you should have a minimum of two years experience in a management role together with previous involvement in training Managers.

Above all it is essential that you possess not only intelligence but also practical skills, and that your personality enables you to communicate easily and effectively with directors and stall at all levels within the company.

An attractive starting salary £5,000 will be in line with experience and ability and we offer a wide range of other benefits including an excellent pension scheme and company car,

Although you will be based at our headquarters in the City, you will travel throughout the UK and it will be necessary for you to spend some time away from London.

Please write with full details of your career to date to: J. F. Jarvis, Selection Manager, Whitbread & Co. Ltd., Chiswell Street, London EC1Y 4SD, quoting ref: HQ/6,

Re-ndvertisement

ULSTER MUSEUM

The Trustees of the Uister Museum

invite applications for the post of

The Musoum comprises departments of Art.

Antiquities, Zonlogy on Bounty, Gaulagy and Technology and Local Illstory. In addition there is a Design and Production Department

there is a Design and Production Department and on Education Service. The regional Armagh County Museum is also included within the responsibility of the Trustees. A new extension has recently been completed and new displays have been listabled to a very high standard. Some development in this floid remains to be undertaken and the

Museum makes a very active contribution to the cultural and educational life of the

Province.
The Director is responsible to the Truslees for the overest emitted of the Museum. Candidates will be expected to be of oppropriate scholarly standing and have considerable

The solory of the past is \$10,282 and the appointment also carries a non-cantributory

Application forms and further particulors may

The Administrative Officer,

Ulster Museum

Botanic Gardens Belfast BT9 5AB

Closing date for application

31st March 1977

Botanic Gardens Belfast

e obtoined from:

WHITBREAD 23



Colleges and Departments of Art

DUDLEY Metropolitan Hati

STORMSHIPPER COLLEGE Appointment of Pirite BrAL 112.1170 Ht. In Charge of GLAMS, GLHATHUS OF PARTI-MUNIX. HI-A99, GARATICS TO DATE IN MINITAL Applications are british in the master variously. In common Supercolor 1977

This post brivates personal approximation and management of the properties and approximation and management by the transition of Diase and Commess and a contillating to the branches and a contillating to the branches and a contillating to the branches and a contillating to the principal base and the principal base in the principal base in St. (21). The principal base in St. (21) of the principal base of St. (21) of the principal base of St. (21) of the principal base of the pr

The process of the same of the same of Colleges of Higher Education

BUCKINGHAMSHIRE

SCHOOL OF MANAGEMENT STUDIES AND LANGUAGES LECTUREIT II IN ECONOMICS Duties to commence tel Serinimber 1977.
Candidator should be firstunites, preferably with a further positioneries. The successful cabilities with the a term of cabilities with the a term of controlles teaching to E.N.H. and negroe students. and neuro simponis.
Sainys scale: 23,574 jo
25,105 per assaum.
Application luin and further
particulars are available from
the Assistant December whom
reinfluind force should be returned as tolethy as possible.

Notices

THE DEVELOPMENT EOUCATION FUND

The Minister to Overseas Development has a set up a procession of the last of

Courses

Librarians

POLYTECHNIC

LEARNING RESOURCES

COURSE RESOURCES OFFICERS.

C3,591-C5,808 Experienced Cherieved Lib-serime received to develop print and ison-print library is-sources and to opening ser-vices Applications positivities sought from those with qualiti-cations or integrals in Applied Sciences and Graphic Ocyana. Betelle, and application lunis

etrative services, one Srightu lackelo, Mouhacomb, Srightu 6N2 4GJ, Tal. 0272-969855.

CHRETER COLLEGE OF LUINALIJAN Attention of hydrodical control of the control of t

MANCHESTER M.A. IN EUROPEAN LOMMUNITY STUDIES

Plotes Quolu ver: 15,777 SCHOOL OF ORIENTAL AND AFRICAN STUDIES (University of London) IN-SURVICE COURSES TO

May 2 RESCHIEFT EVALUA-MUN AND TRY HONNENTAL MANALEMENT A carea ler Fleography Tonchera and for lines concernos with mistrian manual alimbics). CULTURAL BRITAIN POLITICAL PATTLINS IN

SPRING MEDITATION COURSES

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20 M . W

College of Education for Academic Year 1977/78

Teaching Positions in Education Colleges of Education University of Riyad, Riyad Saudi Arabia

Taaching positions are aveilable et the College of Education for the Acedemic Year 1977/78 in the following ereas (Ph.D. is required): Psychology—Education end curriculum—Arl Education—Physical Educetion. Conditions are:

- 1. Profesaor would heve ten years' ecedemic teaching experience after Ph.D. Dagree.
- 2. Associata Pro(assor would have live years' academic teaching experience aftar Ph.D.

Both of tham would have genuine research work published and appreciated or has got his degree (rom recognised University following the acedemic systam of Rlyad University.

3. Assistant Profassor would only hold Ph.D. Degrea.

University salary scala is from 3,600 to 6,600 S.R. per month (one US Dollar =3.5 S.R.) dapending upon ecedamic stetus and leaching expariance. There is ennual housing allowence from 15,000 to 20,000 S.R. and (our roundtrip airtickets. The medium of instruction is Arabic.

Those interested may send their resumes as soon as possible to:

Dr. Mohammed A. Resheed Dean, Collage of Education Univarially of Riyed, Saudi Arebia Selacted applicants will be advised of the recult.

CSIRO

AUSTRALIA

DIVISION OF MINERAL CHEMISTRY PORT MELBOURNE, VICTORIA

RESEARCH SCIENTIST

The Commonwealth Scientilio and Industrial Research Drganisellon hec a broad chertar for racearch into primary and eacondary industry area. The Organisalion has approximately 7,000 ampleyees—2,200 of whom ere research end profeculonal sciantials—loostad in Divisiona, and Sections throughout

ELECTRON MICROSCOPY OF MINERALS

GENERAL: The Division of Minaral Chemiaty is a constituent Division of the CSIRO Minerals Research Laboratoriae. Ils research interests include surface chamistry, malallurgicel chamistry and structural

DUTIES: To angaga in taeserch to improve instrumentel techniques for minaral particulate cheracterization with a ylaw to understandingd mineral resistent processes. To be tasponsible for supervising staff who are operating an automated microprobe snalyser and its ecanning alectron microscope.

QUALIFICATIONS: A Ph.D or aquivalent in an appropriate field and demonstrable research ability. Applicants should be familiar with either microprobe or SEM procedures and have a working knowledge of digital logic circuitry and of the physics of x-ray and electron defectors. A background knowledge of solid leads chambers mineralogy matellurgy or declopy is alale chamiatry, mineralogy, matallurgy or gaology is:

SALARY: Senior Rasesrch Scientisi or Principal Research Scientisi: \$A17,320 \$A23,552 p.a. TENURE: Indelinita with Superannuation.

Applications stating FULL personal and prolessional datalls, the names of at least two prolessional raferees, the contribution you expect to be able to make in the liaids described and quoting reference number 601/273 should reach:

The Personnel Officer. Australian Sciantillo Liaison Office.
Cenbarra House, 10-16 Meltravers Street, London WC2R 3EH

by 4th April, 1977

BURWOOD STATE COLLEGE

DEAN

OF THE INSTITUTE OF SPECIAL EDUCATION

Applications are invited for the above position which will become vecant when the Foundation Ocean, Or L. J. Murphy, relies an 31 December, 1977.

The Cellege whigh is allusted in the eastern outburbe of Midbourne has 1700 aludants annotised in Diploms, Degree and Graduate Diploms ceurass, designed to prepara teachers in Primary and Sacendary Schools and to prepare teachers of the severely handicapped in a number of areas. Within those courses the Cellege prepares specialist teachers in Health, Physical Education and Racreation, Art and Crait, Music and in a number of areas of severs handicap in which courses range from cartificate to degree level. The College has the capacity to take 3000 students.

The institute lean important part of the College. It is angaged in the praparation and development at undergraduate and graduate lavel of leachers and other professional workers ter the "low incidence" handleaps. The handleaps include hearing imporment, visual impairment, physical handleap, mental relardation, emetteral disturbance and severe iseming disability.

The localitate elegaty has an international standing and the Dollage is seeight applicants expetite of maintaining this reputation and of further developing it. Applicants must be able to demonstrale high level qual experience in Spacial Education,

The Council of the Cellege reseves the right I omake an appointment by invitation and would welcome suggestiens concerning the names of suitable become who may be approached with respect to this appointment.

Present salary is \$A29,887 per annum. Further Information concerning the College and eeples of the Terms and Conditions of Employment are available on request.

Applications should centain a reconi pholograph Appareauons snould semain a reconi photograph and the names and addresses of three rofereeafrom whom confidential anguirles may be made. Enquirles may be addressed to Mr. A. I. Dunlop, Academia Registrer, and applications should be lodged with him at the Cellage by 3 June, 1877.



Burwood State College 221 Surwood Highway, Burwood, 3125, Melbourne, Australia.

S \subset Ch_{rist}

STATE COLLEGE OF VICTORIA INSTITUTE OF CATHOLIC EDUCATION

Christ College is an expanding tertiary instanta-providing at present for the training of Paray; Teachers through a three-year pre-service Diplors Course along with Conversion Programmes and Graduate Diplong studies for experienced teacher It is planned to commence a Backelor of Education degree course in 1978.

Applications are invited to the position of

Deputy Director

Sufary : \$A24,971 per mining Inder the Director to ussist has general administration of the College; to convene and participation committees, and to undertain

relevant duties as determined by the relevant duties as determined by a Hirector, Participation in the test ing programme is expected. Doffs will include theveloping, supersting and co-ordinating the projects secondary programme.

Approved university studies will past-graduate qualifications ably including a doctome Applicants should have promachinistrative talent, preferably in tertiary institution. Qualities of integrity, intellectual ability all executive drive are essential as has

executive drive are essential as has understanding of the Christo nature of the College, and willing these to work within this fame

Either limited term or permanent tenure subject to review after the Full details of terms and condition of employment and Information afront the College, the Insilated Cathodic Education and the Stat

Cathedic Eduration and the Star College of Victoria system may kentrained on application to the Director, Dr. B. Blackall, at the address shown below.

Applications should include a corriculum vitae, present addressed to the phone manher, the name and addresses of three referes is the date when available a commence that, and be forwarded to: Applications

The thrector, St'V It'T, Christ Cullege, 17 Castlebar Road, Oakleigh, Vectoria, Australia 4166 Applications to close: 26th March, 1977.

OHIEO **AUSTRALIA**

Conditions

DIVISION OF BUILDING RESEARCH HIGHETT, VICTORIA

SOCIAL/BEHAVIOURAL

The Commonwoafth Sciuntific and Industrial Research Organisation lias a broad charter for research has pitinary and sacondary industry areas. The Organistion has approximately 7,000 employees—2200 d whom are research and professional scenisis—fixed in Divisions and Sections throughout Australia.

GENERAL : The Division undertakes a very wide tall of theoretical and applied research concerned " building and the built anvironment recently extended to social and buhavioural problems in rural and other environments. Community problems are being site from a variety of viewpoint: by a group compile orchitecta, bociologists, psychologists and geograph.

Brs. Among problems heard studied at present the soft housing, sociological and geograph the of community decision-inaking, and intravibation.

Research Scientists have considerable eulenery woll of the opportunity to tour in inviti-disciplined proacties to complex problems

DUTIES : To undertake research in the area of he behaviour in the built environment

QUALIFICATIONS: A Ph.D in social psychology and ology or goography, and demonstrable research appropriate research expenses will be considered.

SALARY: Research Scientist or Santor Research SA13 517 to SA19,919 p.a.

TENURE: Indahmte or fixed term Applications stating FULL personal and professional detection. The names of et teast two professional least and quoting reference number 390/591 should be and quoting reference number 390/591 should be a second to the professional professi

The Personnel Officer Australian Scientific Ligison Office. Canberra House,

10.16 Mailrayers Street, London WC2R 3EH

Overseas continued



The Higher Institute of Electronics Beni Walid

Libyan Arab Republic

Isclurae are conducted in English. Students lake a three year course in Electronice and Communications Engineering Isading to the B.Sc. degree. The Institute is situated in Geni Welld, which is about 176 km from Tripoll, and sil sludents and mambars of sistif era accommodated in the campus. Mambars of sistif ara elrongly encouraged lo underlaka thair own rasearch.

Vacancies for staff mambers axist in the following tisida:

- (1) Elactronics
- (2) Communication Theory
- Instrumentation and Control Computation and Digital Computers
- Engineering Drawing and Descriptiva Geometry
- (7) Malhematics
- (8) English Languaga (prafarenca will be given to candi-datas of English origin).

The minimum qualifications required for Tachniclena slatf is an M.Sc. and/or Ph.O. (leaching experience

The minimum quatifications required for Technicians is a City and Guilds Techniciane Diploma or any aquivalent qualification (preference will be given to candidated with previous experience). Techniciens are required to run the Institute laboratories in the above lielde, plus the Mechanical and Electrical Workshope.

SALARY GRACE (ANNUAL)

Position	From	То	Annuel Increm'i	Totsi Incramit
Profasser	5.760LD	5,480LD	120LD	l e
Associata Prof	5,040	5.760	120	lG
Assistani Prof.	4,550	5,040	80	l e
Lacturer	4,100	4,562	67	1 6
Assist. Lactura	3.510	4,158	108	6
Lab Technician	Salary dan	endent up lence.	on quelifi	cstions

(1 LO=£2.00)

n addition all mambers of stell will receive the following

(1) The Instituta paya forrial-class eir tickals for the stall mambar, his wife and four of his children under 16 years of aga. The paid flokole cover the journey between the place of recruitment to Tripoll.

(2) The institute pays 25 per cent of the air charge for excess baggage waight twice only—at the beginning and at the end of the service.

(3) The Institute provides lumiohed accommodation. (4) Air tickels for laava are provided to stall mem-"bars and their lamilias, as maniloned under section (1), aller two years of continuous work with the institute.

(5) For the lirst lour years of earvice a gretuity of ena months' salary is given to the stait member. A gratuity of two months' salary is given for each aubsaquent year of sarvica.

(6) The Institute provides full madical sarvices for

sisfi mambars and their familias at Government Hospitals

Qualified persona are invited to submit curriculum

Tha Cultural Counsalior, Embasay of the Libyan Arab Rapublic, 56 Prince'e Gale, London, S.W.7.

Courses continued

MANCI STER NSTITUTE OF SCIENCE AND TECHNOLOGY

M.Be. COURSE IN YOROCATION CHEMISTHY

Applications should be soft a soon se positive to restantiate Admissions Tuter the Course of Personnel of the Course of the Cour

SOCIOLOGY OF EUGCATION dopartment offers tull and warf-lime degrees to the uward of M.A. I. and Ph.D. In the yor Education, end M.M.H. and Ph.O. It faculty of Economic least a posterol a process.

COLLEGE OF THE BAHAMAS

The same of the second of the

STAFF VACANCIES

2. AOSISTANT LIGRARIAN

2. AUSISTANT LIGRARIAN

3. CHAIRPERSONS FOR ACADEMIC DISCUSSIONS To be responsible for the leadership in establishing the academic quality of the Division, and listed with the community in criatizing the good name of the College.

18) APPLIES SCIENCE. (b) BISHIESS & ACADIMISTRATIVE STUDIES ILL HUMARITIES, [d] HAILHAL SCIENCE. (e) SOCIAL SCIENCE. II) TECHNICAL & VOCATIONAL STUDIES

SCIENCE. III TECHNICAL & VOCATIONAL STUDIES

4. LECTURERS IN SNOLISH, TO leach Language/Liferalure, Speech

6 Frame including one specialist it. Adult framedial Instruction.

A Locturer in loach Technical English with expertise in one of the
following areas: Power lecturology, Metals Technology and Polymer Tocknology is also logithed.

5. LECTURERS IN SCIENCE. To teach the following outlights to
first year university lovel: [e] Mathematics Incodern and Ireolflonal. (b) Susmoss Methometics. (c) Apticultural Science. (d)
Ulology (including Marine Glology and Gotany). [e] Physicis. (f)
Chomistry.

Chambers.

6. LECTURERS IN SOCIAL SCIENCES. To leach Rollgion, Sociology, Psychology, History & Osography.

7. LECTURERS IN ACCOUNTING. To losch Accounting to liret-year S. LECTURERS IN SECRETARIAL SCIENCE. To

O. LECTURERS IN ECONOMICO. To leach Economica to Mrst-vest

O. LECTURERS IN ECONOMICO. To leach Economica to first-year university standard.

10. LECTURERS IN SOUCATION. To teach Research Methods fall degree level; Foundation subjects in Education (Philosophy, Psychology or Sociology and Resisten Methodsology.)

11. LECTURERS IN TECHNICAL & VOCATIONAL STUDIES. To lacch (a) Carpentry & Joinery. (b) Commercial Art & Advertising Design. [c] Engineering and Avid Machanics.

12. LECTURERS IN APPLIED SCIENCS. To leach (a) Electronics, Rodio & T.V. Tachnology. (b) Electrical Technology. (c) Mechanical Engineering & Droughling. (d) Electrical Incidellation—a Familiarity with the Canadian Electrical Codo la desirable. [a) Vocational Teacher Training. These lacturers will be expected to leach at the craft technician and associate degree level and to essume responsibility for a laboratory or workshop Technical Teacher Training is desirable.

Applicants chould be available to take up duties by 1st September, 1977. Appointments will be for an initial two-year contract, although visiting appointments for one year will be considered.

Applicants should proterably hold a Mastar's Degree or equivolent quellication, eithough experienced canelidates with lower quelifications with lower quelifications with lower quelifications with lower 1977-1979 runs from \$11,050 to \$10,000 plus \$1,000 stirend for Cholegoresta. The delay scale for the Librarian runs from \$12,400 to \$14,200 end for the Assistant Librarian \$3,200 to \$10,600.

interpoled condidates should send detailed resumes by 4th March. 1877] to Personnal Assistant, College of the Sahamas, P.O. Sox N-4012, Nessau, Sehamas, from whom further particulors can be

be of three years duration.

The salery is \$A16,314 approximately rising by security.

ain would be familiar.

The salery is \$A16,314 approximately rising by snaual increments to \$A17,352. Assistance with travel and ramoval expenses will be offered to the auccessful applicant who will be expected to take up the appointment in September, 1977. Applications should be by letter, outlining qualifications and experience accompanied by photocopies of qualifications and the names, addresses and phone numbers Ali correspondance should be sant airmail to :-

TASMANIAN COLLEGE OF

ADVANCED EDUCATION

(AUSTRALIA)

DIVISION OF TEACHER EDUCATION

MOUNT NELSON (HOBART)

OVERSEAS DIVISIONAL

FELLOW IN EDUCATION

Applications are called for the appointment of an Oversage Divisional Fellow in Education. The auccessful candidate will have proven expetition in the development of

mathamatics programmas at the early primary and primary levels and thair links with mathematics of the early

sacondaty laval. A sound background in mathematics is, of course, assential.

The task of the successful applicant will be to participate

in the development of early primery primery and lower secondery in service mathematice programmes in Tasmanlan Schools and to assist with the pre-service mathematics curriculum atudies programme of the Division of Teacher

Tha in sarvica oducation programme is being undartaken to support revision end updating of mathematice toaching in the State, which has followed lines alreedy established

in most English-opacking countries. Tasmanian Educa-lionisia have meintained and foetared cloca links with aducation authorities in Brifain and, therefore, aduca-lional thinking in the Sisie is, in many ways, alluned to davalopments with which prospective applicants in Brit-

The position will be annually reviewed and to expected to

The Head, Mount Nation Campus, Tasmenian College of Advanced Education, GPO 90x 1415, HOBART, TASMANIA 7001, Australis.
Applications close on March 25, 1977. Selected applicants will be interviewed in England.

DUNKLIK DINIATERALA ministry theory and private university in the occupied work their base positions open to the process of the pro

ISRAEL

linglish is the basic lenguage Candidates should have a Ph.O. profombly, or n. mesters degree with loselring

aniary for M.A. is \$5.4\text{Aniary for M.A.

NORWAY AGREI BEGIONAL COLLEGE LECTURESHIP IN STITIBLE STUDIES

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Colleges of Further Education

Kent County Council

Kent Education Committee NONINGTON COLLEGE OF PHYSICAL EDUCATION

M.A. in MOVEMENT STUDIES

UNIVERSITY OF LONDON

Feculty of Education Applications are invited for the M.A. Course in Movement Studies commencing in September 1977. Options evailable will include Asstrates of Movemnt, Dance and Psycho-Social Aspects. Qualified tendicis with good honours degrees or equivalent qualifications in Education and Physical Education are eligible to apply.

Further detells and application forms can be obtained from the Academic Registrer, Nonington College of Physical Education, Nottington, Dover, Kent CT15 4HH (STD 0304; 840671,

THE TIMES

The Times Index (which includes entries for The Times Educational Supplement as well as The Times, The Sunday Times, The Times Literary Supplement and The Times Higher Education Supplement) is now published monthly with a cumulative annual volume at the end of the year.

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